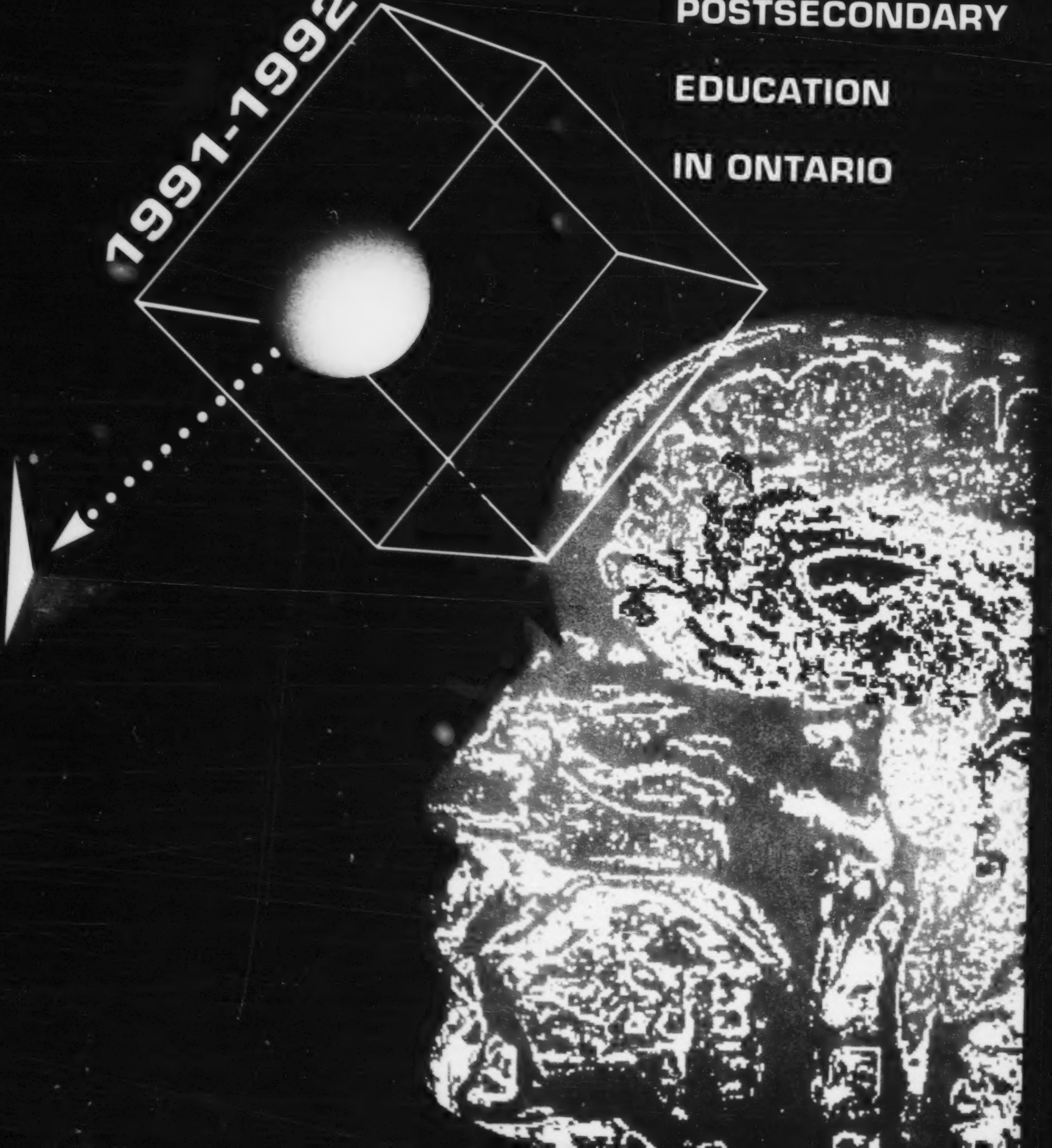
HORIZONS

Ministry of
Colleges and
Universities

Ontario

GUIDE TO POSTSECONDARY EDUCATION IN ONTARIO

1991-1992



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Horizons 1991-92

Today's rapid changes in technology, science, and communications are placing an increasing emphasis on "life-long learning." Ontario's colleges, universities, and other postsecondary institutions are responding to these changes with a wide range of programs designed to provide tomorrow's graduates with the skills and knowledge they need for the future.

Whether you are continuing your education or entering a postsecondary institution for retraining or skills upgrading, I am confident that the 1991-92 edition of *Horizons* will help you select a program that meets your needs.

This guide also includes information on financial assistance that can assist you as you study. In 1989-90, the Ontario Student Assistance Program helped more than 100 000 students across the province.

I wish you well as you embark on a future that holds many new opportunities.

Sean Conway
Minister of Colleges and Universities

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How to Use Horizons

- ✓ If you are interested in attending a particular institution, find the institution's name in the "Contents" page (page 1) of this publication and read the institution's listing at the page indicated.
- ✓ If you are interested in enrolling in a particular course or program at a college of applied arts and technology (CAAT) or university and want to know which institutions offer it, check the CAAT charts beginning on page 13 or the university charts beginning on page 91.
- ✓ Other postsecondary courses and programs are listed in the "Apprenticeship", "Colleges of Agricultural Technology", and "Other Postsecondary Education" sections. The institutions listed in these sections offer a wide variety of vocational, technical, and academic training.

The Communications Branch of the Ministry of Colleges and Universities co-ordinates, edits, produces, and distributes *Horizons* as a service to those interested in postsecondary education in Ontario. The abbreviated listings are provided by postsecondary institutions well in advance of the current academic year. Therefore, an institution's admission criteria, selection procedures, and course offerings may differ from those published in *Horizons*.

Because *Horizons* is intended as only a general introduction to the institutions listed in it, the ministry urges readers to obtain detailed and current information by consulting the institutions' calendars and contacting the institutions directly before making a decision about postsecondary education in Ontario.

For information on postsecondary educational institutions offering programs in which the language of instruction is French, please see *Tour d'horizon, 1991-1992,* also published by the Ministry of Colleges and Universities, 8th Floor, Mowat Block, Toronto, Ontario M7A 1L2.

Pour obtenir plus de renseignements sur les établissements d'enseignement postsecondaire offrant des programmes d'études en français, veuillez consulter l'édition 1991-1992 de *Tour d'horizon*, que vous pouvez obtenir au ministère des Collèges et Universités, Édifice Mowat, 8e étage, Toronto (Ontario) M7A 1L2.

Horizons has been distributed in bulk to each secondary school board in Ontario. The number of copies sent is equal to 150% of the 1989-90 Grade 11 enrolment for every school within each school board and every inspected private secondary school.

The school boards must distribute *Horizons* to the individual schools within their board based on their Grade 11 enrolment.

If additional free copies are required the schools *must contact the boards directly*. School boards should make requests for additional copies of *Horizons in writing*, indicating the reason for the request and the ways in which those copies will be distributed.

When requesting additional copies, please submit the name of each school, its enrolment as of September 1990, and the number "owing" to each school according to the formula.

Please send your written request to: *Horizons*, Ministry of Colleges and Universities, Communications Branch, 8th Floor, Mowat Block, Queen's Park, Toronto, Ontario M7A 1L2.

Other groups or individuals may order from one to 10 free copies of *Horizons* by writing to the Public Inquiries unit, Ministry of Education, 13th Floor, Mowat Block, Queens Park, Toronto, Ontario M7A 1L3 (telephone (416) 965-6407). If you are calling from outside Metropolitan Toronto, but within Ontario, you may call toll-free by dialing 1-800-387-5514.

Contents

2 **Students' Costs**
3 **Financial Assistance for Students**
7 **General Information on Ontario Colleges of Applied Arts and Technology**
11 **Names and Addresses of Ontario Colleges of Applied Arts and Technology**
12 **Map of Geographic Distribution of Ontario Colleges of Applied Arts and Technology (Main Campuses)**
13 **Chart of Programs Available at Ontario Colleges of Applied Arts and Technology**

Ontario Colleges of Applied Arts and Technology

41 Algonquin
43 Cambrian
45 Canadore
46 Centennial
48 La Cité collégiale
48 Conestoga
49 Confederation
51 Durham
52 Fanshawe
53 George Brown
55 Georgian
57 Humber
58 Lambton
60 Loyalist
61 Mohawk
62 Niagara
64 Northern
65 St. Clair
68 St. Lawrence
70 Sault
71 Seneca
74 Sheridan
77 Sir Sandford Fleming
78 **Apprenticeship**
79 Construction Occupations
81 Industrial Occupations
82 Motive Power Occupations
83 Service Occupations
85 Other Employer-Specific Occupations
86 **General Information on Ontario Universities and Ryerson**
89 **Names and Addresses of Ontario Universities, Ryerson, and OCA**
90 **Map of Geographic Distribution of Ontario Universities and Ryerson**
91 **Chart of Programs Available at Ontario Universities and Ryerson**

Ontario Universities, Ryerson, and OCA

103 Brock
105 Carleton
108 Guelph
112 Lakehead
115 Laurentian
117 Algoma College
118 Collège de Hearst
119 Nipissing College
120 McMaster
123 Ontario College of Art
124 Ottawa
127 Queen's
132 Royal Military College
133 Ryerson Polytechnical Institute
139 Toronto
147 Trent
149 Waterloo
155 Western Ontario
160 Wilfrid Laurier
162 Windsor
164 York
168 Teacher Education
169 **Non-Affiliated and Non-Federated Postsecondary Institutions with Statutory Authority to Grant Theological or Other Degrees**

Colleges of Agricultural Technology

170 Centralia College of Agricultural Technology
170 Kemptville College of Agricultural Technology
171 New Liskeard College of Agricultural Technology
172 Ridgetown College of Agricultural Technology

Other Postsecondary Educational Institutions

172 Canadian Coast Guard College
173 Canadian Memorial Chiropractic College
174 CA Ontario (Institute of Chartered Accountants of Ontario)
175 Certified General Accountants Association of Ontario
176 Hospital Programs
176 Institute of Chartered Secretaries and Administrators in Ontario
177 Michener Institute for Applied Health Sciences
178 Niagara Parks Commission School of Horticulture
179 Nursing Assistant Program
179 Society of Management Accountants of Ontario
180 Toronto Art Therapy Institute
181 **Registered Private Vocational Schools**
191 **Distance Education and Correspondence Study**
197 **Facilities for Students with Disabilities**
205 **Native Studies**
212 **Study Opportunities for Senior Citizens**
215 **Selected Reference Publications**

Note:
With reference to admission requirements for postsecondary programs:

OSSD* = Ontario Secondary School Diploma (30 credits subject to the conditions specified in section 4.10 of *Ontario Schools: Intermediate and Senior Divisions (Grades 7-12/OACs), Program and Diploma Requirements, Revised Edition, 1989*)

OSSGD† = Ontario Secondary School Graduation Diploma (completion of 27 credits meeting Ministry of Education requirements)

OSSHGD‡ = Ontario Secondary School Honour Graduation Diploma (completion of six credits at the Grade 13 level)

*Available as of June 1986.
†Available up to August 31, 1989.
‡Available up to August 31, 1990.

Students' Costs

Total Costs

Total costs for an eight-month academic year at a postsecondary institution may vary from approximately $2 650 for a student living at home and attending a college of applied arts and technology (CAAT) to approximately $8 500 or more for a university student living on campus or boarding away from home.

Annual Tuition Fees

University tuition or academic fees may usually be paid in two instalments, depending on the institution. CAAT fees must generally be paid in one instalment. When accepting an offer of admission by a college of applied arts and technology, each applicant must submit a non-refundable confirmation fee, which is deducted from the full tuition fee. Some universities also require a deposit on tuition fees for limited-enrolment programs.

The figures below show the approximate annual fees for a full-time undergraduate in various subject areas for the 1990-91 academic year. Please note that incidental, co-op, and other such fees are not included. Specific fees are listed under individual universities and colleges. All fees are approximate and subject to change without notice.

University Degree Programs – Annual Fees (not including incidental, co-op, and other fees)

arts	$1 639
commerce	$1 639
dentistry (not including kit fee)	$2 084
education	$1 639
engineering	$1 779
law	$1 639
medicine	$2 084
nursing	$1 639
physical education	$1 639
science	$1 639

Other Institutions – Annual Fees

Ontario College of Art (not including incidental fees)	$1 639
Colleges of Applied Arts and Technology (two terms)*	$740
Royal Military College (not including incidental fees)	$1 080
Ryerson Polytechnical Institute (not including incidental fees)	$1 639

*Fees may vary according to length of program.

International Student Fees

The policy of the Ontario government is that international students admitted to Canada on student visas pay a higher proportion of the cost of their education than Canadian students do. Tuition fees for international students are therefore higher than for Canadians.

Certain international students are exempt from the higher fee. These students include diplomatic and consular officials and their dependants; individuals and their children and spouses admitted to Canada for the purpose of engaging in employment; Convention refugees, refugee claimants who applied for Convention refugee status prior to January 1, 1989, and their spouses and dependants; students sponsored by the Canadian International Development Agency; and students studying in Canada under eligible cultural exchanges. Students who are unsure about their status in this matter or who want more information are urged to contact the institution to which they are applying.

Tuition fees for international students registering in most programs at the colleges of applied arts and technology are $6 160 per two-term academic year.

Because the universities are autonomous in the area of determining tuition fees, the final decision on fees for international students is left to the board of governors. Generally, university international student fees range from $5 457 to $10 072 (per two-term academic year) for new undergraduate registrants, depending on the institution and program chosen. Students are advised to check with the individual institutions for details on the actual fees charged to international students.

Transportation

At least $55 a month should be added to the living expenses of the student who is not within walking distance of classes. This figure will vary according to public transportation rates, car pool arrangements, and parking fees.

Books and Student Supplies

CAAT and university students should allow $370 to $735 per year for books and supplies. Students in specialized or professional university courses such as architecture, dentistry, and medicine, or in CAAT programs such as photography, cinematography, advertising, and graphic arts, may require additional funds for the purchase of books, instruments, and supplies.

Incidental (Ancillary) Fees

The ancillary fees charged by universities cover such costs as health insurance, athletics and recreational facilities, student government, and work-term placement. Such fees are collected as separate mandatory fees. At all postsecondary institutions, tuition-related fees such as laboratory, shop, and computer-use costs are included in the standard tuition fee. Specific information concerning all mandatory ancillary fees may be obtained by consulting the calendars of the various universities and colleges.

Application and Examination Fees

Students wishing to enter an Ontario university in any year must apply to the Ontario Universities' Application Centre. An $18 fee must accompany the common application form. For further information, please see the *General Information on Ontario Universities* section.

Students wishing to enter colleges of applied arts and technology must submit their applications to the college(s) of their choice. No application fee is required. Some institutions require fees from students writing special examinations. For further information, contact a secondary school guidance counsellor or a CAAT registrar.

Ontario Health Insurance

Every Ontario resident is covered under Ontario Health Insurance for a wide variety of health services by hospitals, physicians, and certain other health practitioners. There are no premiums for this coverage. For more information telephone, write,or visit the nearest Ontario Ministry of Health office, listed in the blue pages of the telephone book.

Board and Lodging

All Ontario universities and some CAATs have residence facilities. Depending on meal plans and occupancy, residence costs range from approximately $2 700 to $4 420 or more for an academic year. Specific costs are listed under the individual universities in this publication and in university calendars. Students who choose board and lodging should allow at least $120 a week to cover these costs. All institutions maintain a housing registry, which lists available accommodation in the area.

Miscellaneous Expenses

In addition to the basic board, lodging, and tuition costs, incidental expenses must be considered in any estimate of the cost of a year at a university or college. Students should allow a weekly average of about $35 for miscellaneous items such as laundry, personal needs, and entertainment.

Financial Assistance for Students

Students who need financial assistance to attend a university, college of applied arts and technology (CAAT), or other postsecondary institution may be able to obtain it from government or private sources.

A number of corporations, veterans' organizations, and service clubs offer scholarships for general academic excellence or excellence in particular subjects, and most universities have entrance scholarships for outstanding scholars. Information on these bursaries and scholarships should be available from school guidance offices or from university and CAAT calendars and financial aid offices.

About two of every five full-time students at Ontario's CAATs and universities receive government financial aid. The Ontario government administers the federal and provincial student assistance programs outlined below.

Ontario Student Assistance Program (OSAP)

OSAP is intended to help students who need money for postsecondary education. Academic excellence is not a qualification, although students are expected to progress satisfactorily in their studies. OSAP funds supplement, but do not replace, a student's own financial resources and those of his or her immediate family.

OSAP comprises six plans:

- Ontario Study Grant Plan
- Canada Student Loans Plan
- Ontario Student Loans Plan
- Ontario Special Bursary Plan
- Ontario Work-Study Plan
- Part-Time Canada Student Loans Plan

The main features of the program are summarized below. Full information is contained in the booklet *A Guide to the Ontario Student Assistance Program 1990-91*, which you may obtain from your guidance counsellor, from the Financial Aid Administrator at the institution you are planning to attend, or from the Ministry of Colleges and Universities (the address appears under the heading "Further Information", near the end of this section). Brochures describing OSAP for the 1991-92 academic year and application forms will be distributed to all Ontario secondary schools in the spring of 1991.

You can use the same application form to apply for an Ontario Study Grant, a Canada Student Loan, and an Ontario Student Loan. When your application is processed, the ministry first evaluates the amount of grant that you may receive from the Ontario Study Grant Plan. The ministry then considers your eligibility for loan assistance. You may decide for yourself how much of this additional loan assistance you wish to accept.

Separate application forms for the Ontario Special Bursary Plan and the Part-Time Canada Student Loans Plan are available from the Ministry of Colleges and Universities and from the financial aid offices at all Ontario universities and CAATs. Application forms are also available from institutions that offer the Ontario Work-Study Plan.

Eligibility

To qualify for OSAP assistance, you must be a Canadian citizen or permanent resident and meet Ontario's residency requirements. You may qualify for grant and loan assistance from OSAP if you plan to attend one of the following institutions in Ontario:

- a college of applied arts and technology
- a university
- a college of agricultural technology
- an approved registered private postsecondary institution in Ontario
- an approved hairstyling school in Ontario (Canada Student Loans only)
- Canadian Memorial Chiropractic College
- Bar Admission Course
- Michener Institute for Applied Health Sciences (formerly Toronto Institute of Medical Technology)
- Ontario College of Art
- Royal Conservatory of Music
- Royal Military College
- Ryerson Polytechnical Institute

Outside Ontario, you may qualify for Ontario Study Grant, Canada Student Loans, and Ontario Student Loans assistance if you plan to attend any university or approved college of applied arts and technology in Canada or a Canadian military college.

Ontario residents who wish to attend public or private postsecondary institutions elsewhere in the world may be eligible to receive loans through the Canada Student Loans Plan, but they will not be eligible for grants or Ontario Student Loans.

OSAP requires that you enrol in a program leading to a degree, diploma, or certificate. You may be eligible for a Canada Student Loan if your program of study lasts at least 12 weeks in one academic year and is a minimum of 60% of a full course load. For the Ontario Study Grant Plan your program must last at least 10 weeks, and for the Ontario Student Loans Plan at least 4 weeks.

The Ontario Study Grant Plan and the Ontario Student Loans Plan require that you take at least 20% of a full course load in order to apply for assistance. You can be either a full- or part-time student.

Calculating Your Financial Need

Under both the grant and loans plans, your financial need is calculated by subtracting your expected financial contribution from allowable educational expenses. You will receive financial assistance if these educational expenses are more than the amount of money that you or you and your family are expected to contribute toward these expenses. However, if your expected financial contribution is equal to or more than the costs of your postsecondary education, you will not receive any financial assistance from OSAP.

Allowable Educational Expenses

Allowable educational expenses include the actual or estimated costs of the following items, as determined by the institution you are planning to attend and approved by the ministry:

- tuition and compulsory fees
- books, equipment, and supplies
- personal and living expenses
- allowance for return trips home
- local travel allowance

Expected Financial Contribution

Depending upon your circumstances, your expected financial contribution may include amounts you are expected to have saved from summer earnings, or include a contribution from your earnings from part-time work after registration. Academic awards, other awards and income, government income, investment income, and a contribution from assets may also be considered as financial resources. If you are married or living in a common-law relationship, your spouse may be expected to contribute an amount based on his or her income and net assets.

In addition, if you are just leaving secondary school and applying for assistance to attend a postsecondary educational institution, your parents are likely to be expected to contribute to your basic educational costs, according to their financial resources. To determine their contribution, an objective assessment is made of your parents' income, and allowances are made for their basic expenses and the number of their dependants. A contribution from parents' net assets may also be considered as a financial resource.

Loan and Grant Assistance

Loans are usually interest free until six months after you cease to be an eligible student. Ontario Study Grants do not normally have to be repaid.

Applicants eligible for grants and loans may receive assistance up to the amount of their financial need, subject to the maximums under each plan. Under the Canada Student Loans Plan, applicants may obtain a maximum of $105 per week of their study period.

Under the Ontario Student Loans Plan, applicants may be eligible to receive up to $1000 per term.

Where, When, and How to Apply for Financial Assistance

If you are planning to attend an Ontario college, university, or another eligible Ontario institution, you can get your OSAP application form directly from your guidance office or the institution's financial aid office. To apply for assistance in attending any other postsecondary institution, you can obtain the necessary forms from the Student Awards Branch of the Ministry of Colleges and Universities (the address appears under the heading "Further Information", near the end of this section). When requesting your application form, please state the name of the institution you plan to attend.

Mail your OSAP application to the financial aid office at the institution you plan to attend, or take it to the office personally to be checked for completeness and accuracy. You may submit your application as soon as the forms are available, usually in April.

Your application should be submitted no later than July 1, in order to be processed for fall registration.

If you intend to enter a trimester or co-operative program, you should submit your application before the end of the first month of the semester to which the application refers.

To obtain further information about the Ontario Student Assistance Program, contact the financial aid office of the institution you plan to attend or the Student Awards Branch of the Ministry of Colleges and Universities.

Ontario Special Bursary Plan

The aim of the Ontario Special Bursary Plan is to encourage people in serious financial need to begin part-time postsecondary studies or take approved upgrading courses, so that they may improve their training and skills to enhance their job opportunities. You may be eligible for a bursary if:

- you are a Canadian citizen or a permanent resident who has been in Canada as a permanent resident for 12 consecutive months; and
- you have resided in Ontario for 12 consecutive months, not counting time spent as a full-time student; and
- you are receiving social assistance, are unemployed, or have a low family income; and
- you are taking or are intending to take one of the following:
  - credit courses (on a part-time basis) leading to a degree, diploma, or certificate; or
  - upgrading courses (either on a full- or part-time basis) offered by a college of applied arts and technology; or
  - in special cases, approved correspondence courses at certain institutions in Ontario;

and

- you are registered or are intending to register at one of the following Ontario postsecondary institutions:
  - a college of applied arts and technology;
  - the Ontario College of Art;
  - a registered private vocational school approved for Ontario Special Bursary Assistance;
  - Ryerson Polytechnical Institute; or
  - a university.

If you are eligible, you may receive a bursary to cover the cost of tuition and other compulsory fees, books and equipment, and local transportation expenses. You may also receive assistance for child-care expenses, if applicable. The maximum amount of assistance per academic year is $2 500.

Ontario Work-Study Plan

The Ontario Work-Study Plan is designed to help financially needy students meet their educational costs by partially funding part-time work during the school year, thereby reducing dependence on loan funding.

This plan is available at many Ontario CAATs and universities. It is operated on a cost-sharing basis – 75% is paid by the Ontario government and 25% is paid by the sponsoring agency (the institution, a student organization, etc.).

Part-Time Canada Student Loans Plan

The purpose of this plan is to provide needy part-time students with guaranteed loans that will help to cover the cost of tuition fees, books, learning materials, transportation, child care, and other related expenses.

You may be eligible for a Canada Student Loan for part-time studies if:

- you are a Canadian citizen or permanent resident; and
- you are attending or planning to attend an approved postsecondary institution in Canada; and
- you are a resident of Ontario; and
- you have a gross family income no greater than the amount outlined in the table below; and
- you are not in default on a previous Part-Time Canada Student Loan or Ontario Student Loan; and
- you are taking between 20% and 60% of a full-time course load; and
- you have an outstanding principal balance on previous Part-Time Canada Student Loans of less than $2 500.

	Maximum income	**No. of dependants**
Single student	$24 500	–
Married student*	$27 260	1
	$30 660	2
	$34 060	3
	$37 450	4
	$40 850	5
	$44 250	6 or more

*For the purpose of OSAP, a single student with one or more dependent children is considered "married".

Fellowships and Bursaries for Second-Language Study

There are a number of federal-provincial programs related to Canada's two official languages. These include:

- *Bursaries for Summer French Courses for Francophones Outside of Quebec*

A bursary of $1 500 is available to eligible francophone students in Ontario who wish to perfect their mother tongue and improve their knowledge of their own culture. Students in their second-to-last year of secondary school studies take the course at the Cégep de Jonquiere or at the Centre universitaire de Moncton. Students who have completed their secondary school studies can take the course at the Université du Québec à Trois-Rivières. Students will be reimbursed for the actual cost of a one-way air trip between the province of residence and the institution upon presentation of original receipts.

- *Fellowships for Studying in French*

A program funded by the Secretary of State, providing fellowships for the first year of study in any discipline taken in the French language at the graduate or undergraduate level in a French-language or bilingual Canadian university or college of applied arts and technology in Ontario, or in a French-language Cegep in Quebec. Eligible students may receive up to $1 000 if the program of study is available within 50 kilometres of the student's permanent residence, and up to $2 000 if the program is not available within 50 kilometres.

- *Summer Language Bursary Program*

This bursary program, funded by the Secretary of State for summer language study, gives institutions $1 500 to cover the cost of tuition, board and lodging, and cultural activities for each student taking immersion courses in a second official language, either English or French. Participants must be full-time students and must have general postsecondary standing at the time of application or have attained such standing by the time they become involved in the program.

Further Information

For further information on any of these financial assistance programs, contact your guidance counsellor, Financial Aid Administrator, or

Student Support Branch
Ministry of Colleges and Universities
P.O. Box 4500
Thunder Bay, Ontario
P7B 6G9
Telephone (807) 345-4830
Toll-free 1-800-465-3013

Official-Languages Monitor Programs

The following two monitor programs are funded by the Department of the Secretary of State of Canada and administered by the Ministry of Education through the Education Liaison and Exchange Branch. To be eligible, the candidate must be a Canadian citizen or a permanent resident and have completed one year of postsecondary studies.

- *Part-Time Monitor Program*

Part-time monitors must be full-time postsecondary students usually studying in a province other than their own. They will work between six and eight hours per week under the supervision of a second-language teacher. Some francophone monitors will be assigned to French schools outside Quebec. For eight months' participation in the program, they will receive at least $3 500 and one return trip between their home province and their host province.

- *Full-Time Monitor Program*

Full-time monitors will assist second-language teachers (French or English) in rural or semi-urban areas, usually in a province other than their own, for 25 hours per week. Some francophone monitors will be assigned to French schools outside Quebec. Monitors will receive up to $10 000 for ten months of participation. They will also receive two return trips per year between their home province and their host province. They may also receive a settling-in allowance of up to $770 and a maximum of $1 110 for commuting expenses within the host province.

For further information, please contact:
Ministry of Education
Education Liaison and Exchange Branch
14th Floor, Mowat Block
Queen's Park
Toronto, Ontario
M7A 1L2
Telephone (416) 965-5996

Financial Support from the Federal Government

The Canada Employment and Immigration Commission (CEIC) provides financial support for participants in some college certificate and diploma programs, under the Canada-Ontario training agreement of 1982.

For those applicants who meet the eligibility criteria, the CEIC may provide income support – in the form of Unemployment Insurance benefits or a weekly allowance – and may pay for the participant's tuition.

Further Information

For further information on CEIC support, contact the local Canada Employment Centre (listed in the blue pages of the telephone book under "Government of Canada/Employment and Immigration Canada") or the college.

Ontario Scholarships

Awards of $100 are made on the recommendation of secondary school principals to students who have an overall average of 80% or better in six Grade 13/OAC credits. Additional information may be obtained from your high school guidance office.

General Information on Ontario Colleges of Applied Arts and Technology

Ontario's colleges of applied arts and technology (CAATs) provide students with the opportunity to develop the skills necessary to prepare for rewarding careers in business, the applied arts, technology, and health sciences.

The 23 CAATs, with more than 100 campuses throughout Ontario, serve all of the province's economic regions. During 1989-90, the CAATs had an enrolment of approximately 113 000 full-time students in certificate and diploma programs, in addition to those attending college as part of their apprenticeship training. The number of part-time registrations was approximately 835 000 in 1988.

CAATs offer a variety of full- and part-time career-oriented programs for secondary school graduates and for mature students who have not completed secondary school.

Most CAAT programs fall into two categories – diploma programs, which last at least four semesters (usually over a two- or three-year period), and certificate programs, which last one year or less. A "program" consists of a number of "courses" leading toward a diploma or certificate. For instance, a diploma program in mechanical engineering technology might include courses in mathematics, drafting, the mechanics of metals, machine tools, etc.

Some programs are offered on a part-time basis; students may complete courses leading toward a certificate or diploma during the evening or on weekends. Colleges also offer non-credit career-oriented courses and non-credit general interest courses. To determine whether a particular program or course is offered, contact the CAAT in your area.

General Admission Requirements

The following persons are eligible to apply for admission to CAAT programs:

- those who hold, at least, an Ontario Secondary School Diploma (OSSD);
- mature students who are 19 years of age on or before the date of commencement of the program in which they plan to enrol.

Specific admission requirements vary from program to program; therefore, applicants should consult the calendar of the CAAT they plan to attend. Calendars may be obtained from secondary school guidance offices or directly from the college registrar.

In cases in which the number of students eligible for a program exceeds the number of places available, qualified applicants will be admitted in the following order of preference: permanent residents of Ontario, permanent residents of other Canadian provinces or territories, and international students.

Additional and Special Admission Requirements

After some of the program descriptions in the college-by-college listing there may be a section entitled *Additional Admission Requirements* or *Special Admission Requirements*, which lists specific requirements for admission to the programs.

The requirements listed under the heading *Additional Admission Requirements* are in addition to the OSSD and apply to all programs in the listing unless indicated otherwise.

Under the heading *Special Admission Requirements* are listed the requirements for admission to special programs.

Schedule of Important Dates 1991

March 1

Applications postmarked with this date or earlier will be given equal consideration in the application process.

April 15

Colleges release first offers of admission for programs beginning in September 1991.

Programs Offered

Most programs offered at the CAATs are described in the college-by-college listing in four broad categories: Applied Arts *or* Arts and Science – general and applied; Business; Health Sciences; and Technology.

The listing also includes descriptions of:

- college preparatory programs for academic upgrading
- alternative programs
- continuing education
- special programs

For a summary listing of programs offered by individual colleges, students can consult the CAAT program charts on the following pages and the listings in particular college sections. For specific information on any program or course, students should consult individual college calendars or visit their nearest college.

How to Use the CAAT Charts

An alphabetical cross-reference index accompanies the CAAT charts. Also, a uniform style is maintained for most "Technician", "Techniques", and "Technology" programs. These terms are abbreviated and listed alphabetically:

"Technician"...is shown as..."Tn"
"Techniques"...is shown as..."Tques"
"Technology"...is shown as..."Ty"

To find a subject in the charts:

1. locate the desired program name in the index;
2. note the code number that follows this name; and
3. turn back to the appropriate numerically coded listing in the CAAT charts.

Some Information About Nursing Programs

Basic-level preparation for the practice of nursing can be obtained through either diploma or degree programs. Upon successful completion of either type of program, graduates are eligible for admission to the examination conducted by the regulatory body, the College of Nurses of Ontario, to qualify for practice as registered nurses in Ontario.

Colleges of applied arts and technology offer diploma nursing programs primarily in a three-year academic format, with some colleges providing programs in two and one-half years. Both program formats contain theoretical content and clinical experience that is in keeping with the provincial standards for nursing programs.

Diploma nursing programs are offered in all colleges. Degree programs are available at eight universities and at Ryerson Polytechnical Institute. The Government of Ontario has reaffirmed its position that both diploma and degree nursing programs are acceptable routes for gaining entry to the practice of nursing.

Some Information About Technology Programs

CAATs offer three types of training programs in technology:

- *Technologist Programs*

A technologist performs a variety of technological functions in a physical science or engineering specialization, typically in support of research, development, design, quality control, or production activites, using knowledge of scientific, mathematical, and engineering principles and practices.

A typical full-time technologist program in the CAATs takes six semesters or three years (from September to April).

- *Technician Programs*

A technician performs a limited number of technical functions in a physical science or engineering specialization, typically in relation to installation, operation, maintenance, quality control, or production planning, using a basic knowledge of specific scientific, mathematical, and engineering principles and practices. A typical full-time technician program takes four semesters or two years (from September to April).

CAATs also offer non-semestered technician programs in selected occupations. These programs may be somewhat shorter because of continuous operation during the summer months. Individuals may be supported in these programs by Employment and Immigration Canada (EIC) under the Canada-Ontario Agreement on Training. The EIC may pay tuition costs and provide either a weekly Unemployment Insurance benefit or a weekly allowance. Students referred to a college away from their place of residence may receive travel and living-away-from-home allowances.

- *Certificate Programs*

The graduates of certificate programs perform a very limited number of technical functions in an engineering specialization, typically in relation to fabrication, installation, or routine maintenance, using a well-defined set of engineering practices.

In some cases, students participating in certificate programs are supported by Employment and Immigration Canada (EIC) under the Canada-Ontario Agreement on Institutional Training and Training Services. The EIC may pay tuition fees on behalf of the student and provide income support during the training program – through either Unemployment Insurance benefits or a training allowance. Other students pay their own fees. The course of study is the same for both fee-payers and federally supported students. Some students may have to take a college preparatory course before entering a certificate program.

Further information about federal assistance is available from the local Canada Employment Centre or from the CAAT. *Note:* Certificate programs are also offered in other fields of study.

Technology Careers for Women: Traditionally, few women have entered technology careers, but CAATs are encouraging and assisting women to prepare for careers in these non-traditional occupations.

Of course, all CAAT programs are open to both men and women. Some women may require preparatory training before selecting a career and beginning training. Therefore, a number of CAATs offer courses specifically for women interested in careers in technology; these are listed on page 31.

College Preparatory Programs for Academic Upgrading

College preparatory programs are designed to help mature students prepare for their next academic or skill-training step. One of the major college preparatory programs is Basic Training for Skill Development (BTSD).

Before beginning an upgrading program, students must normally take a test to assess their academic background and level. Working at their own pace, students must meet specified objectives before continuing to the next level. Certificates are issued for each BTSD program completed. Students should be aware that they cannot apply certificates received for completing a BTSD program toward an OSSD. Completion of an upgrading program in a specific area (academic, technical, etc.) will prepare students to enter a college-level program in that area at any CAAT.

Fees are charged, but students may be eligible to receive financial support from the Canada Employment and Immigration Commission under the Canada-Ontario Agreement on Institutional Training and Training Services.

Co-operative Education

Co-operative education formally integrates academic study and paid work experience in co-operative employer environments. The following institutions offer co-op programs. The institutions' listings in the following pages indicate which co-op programs they offer.

Colleges of applied arts and technology offering co-op programs: Algonquin, Cambrian, Canadore, Centennial, La Cité collégiale, Confederation, Fanshawe, George Brown, Georgian, Humber, Lambton, Mohawk, Niagara, St. Lawrence, Sault, Seneca, Sheridan, and Sir Sandford Fleming.

Celebrate National Co-op Week from November 4 to 10, 1990.

Alternative Programs

In addition to offering the programs listed above, CAATs play a vital role in a number of other programs administered by the Ministry of Skills Development.

- *Apprenticeship*

CAATs provide the institutional portion of training under the apprenticeship program. Apprentices spend about 90% of their training program learning on-the-job; however, they do attend CAATs to learn skills they might not have learned in the workplace. For instance, a general machinist apprentice attends a CAAT three times during the four-year apprenticeship program. These college terms – called Basic, Intermediate, and Advanced – each last two months. The number and length of in-college terms varies from occupation to occupation. Apprentices attending CAATs may receive financial support from the Canada Employment and Immigration Commission, under the Canada-Ontario Agreement on Institutional Training and Training Services. Further information on apprenticeship is provided in the *Apprenticeship* section of this directory.

- *Futures*

The Futures program helps unemployed young people to find and maintain a permanent job. It provides them with counselling, work experience, job skills, and educational upgrading. Futures is delivered through Youth Employment Counselling Centres and CAATs in Ontario.

To be eligible for Futures, participants must be: out of school, with less than a Grade 12 education, and out of work for at least 12 weeks, *or* out of school, with a Grade 12 education (or more), and out of work for 20 weeks; under 25 years of age; and living in Ontario and legally able to work in Canada. The eligibility is extended to 29 years of age for persons with disabilities. Employment-disadvantaged youth lacking Grade 12 may be eligible if they have had 16 weeks of accumulated unemployment over the preceding year.

Futures offers several options:

Pre-Employment Preparation assists young people who lack social and work skills. Counsellors will help these young people to prepare for employment through a well-designed training plan. Participants are paid $125 a week during this period.

Basic Work Placements offer up to 16 weeks of work experience in a suitable job. Progress is monitored by the counsellor and the employer. Participants are paid the current minimum wage.

Enhanced Training provides opportunities for more intensive, in-depth training to suitable Futures participants.

Guarantee Option provides to youth lacking secondary school graduation up to one full year of work placements on the condition that the participants make a commitment to upgrade their education.

Part-Time Work/Part-Time School Option provides guaranteed part-time work placements for one year to participants who lack Grade 12 secondary school graduation, and who agree to undertake current part-time study to complete at least three credits toward their diplomas. Participants will be paid $100 per week, for time spent in upgrading, as well as the minimum wage for part-time work hours. They will also receive assistance in arranging and paying for the upgrading.

- *Ontario Management Development Program*

This program is designed to help managers improve their supervisory skills in human relations, effective communication, and planning. It is offered at most CAATs and in many workplaces. For more information, contact your employer or the industrial training consultant at your nearest CAAT.

- *Industrial Training*

CAATs also help employers establish on-the-job training programs. Employers may receive financial support for these programs from the Canada Employment and Immigration Commission under the Canada-Ontario Agreement on Institutional Training and Training Services. For more information, telephone the Training Hotline at 1-800-387-5656 or the Regional Apprenticeship office nearest you.

Continuing Education

Continuing education provides all members of the community with an opportunity to learn at a time and place convenient to them. Most CAATs offer a variety of credit and non-credit courses. Courses can usually be taken on a part-time day or evening basis throughout the year. Depending on the CAAT and its programs, students may work toward a certificate or diploma. In addition, most CAATs offer non-credit courses covering a broad range of career-oriented and general-interest subjects.

In general, these courses are offered on CAAT campuses, but many are offered in other locations, such as churches, secondary schools, and community centres.

For lists of courses and programs offered through continuing education, contact individual CAATs.

Transfer Possibilities for CAAT Graduates

While it is not intended that the CAATs should act as feeder institutions to the universities, graduates of two-year programs may be accepted on an individual basis for admission to the first year of certain university programs.

In some instances, qualified graduates of the three-year programs may be admitted to the second year of related university programs. For example, a graduate from an engineering technology program may qualify for admission to a university degree program in engineering, if a place is available. Decisions about the admissibility of individual CAAT graduates to degree programs are made by the admissions officers of the universities concerned.

Fees

In 1990-91, tuition fees were $740 per academic year for most full-time diploma programs. Fees may vary, however, according to program length. Tuition fees for short programs were $20.70 per week and $1.75 per hour for part-time courses. Fees for international students (per two-term academic year) were $6 160. All of the above fees are subject to change. See the introductory section *Students' Costs* for further information.

Other Facilities

Students should check with CAAT housing or student services offices regarding residence facilities or lists of off-campus housing. Each CAAT operates counselling services and health centres, and most have a wide range of sports facilities, resource centres, and job placement services.

Further Information

For more detailed information on CAATs, check the individual CAAT sections in this publication, consult CAAT calendars, which are available in secondary school guidance offices, or get in touch with the registrar's office of individual CAATs. Additional information may be obtained from
Ministry of Colleges and Universities
Inquiries Unit, 13th Floor
Mowat Block, Queen's Park
Toronto, Ontario M7A 1L2
Telephone (416) 965-6407

Names and Addresses of Ontario Colleges of Applied Arts and Technology

Philip T. Killeen, President
Algonquin College of Applied Arts and Technology
1385 Woodroffe Avenue
Nepean, Ontario K2G 1V8
For general information telephone
(613) 727-7603, 727-7606
Toll-free 1-800-267-7061

Glenn N. Crombie, President
Cambrian College of Applied Arts and Technology
1400 Barrydowne Road
Sudbury, Ontario P3A 3V8
For general information telephone
(705) 566-8101 ext. 7503, 7544

Garth Jackson, President
Canadore College of Applied Arts and Technology
100 College Drive
North Bay, Ontario P1B 8K9
For general information telephone
(705) 474-7600 ext. 123, 131, 132, 501, 509, 543
Toll-free 1-800-461-7340

I. Bev McCauley, President
Centennial College of Applied Arts and Technology
41 Progress Court
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
For general information telephone
(416) 694-3241 ext. 3312, 3319
Toll-free 1-800-268-4419

Andrée Lortie, President
La Cité collégiale
2445 Saint-Laurent Boulevard
Ottawa, Ontario K1G 5H8
For general information telephone
(613) 744-5050

John W. Tibbits, President
Conestoga College of Applied Arts and Technology
299 Doon Valley Drive
Kitchener, Ontario N2G 4M4
For general information telephone
(519) 748-3516

Roy V. Murray, President
Confederation College of Applied Arts and Technology
P.O. Box 398, Station F
Thunder Bay, Ontario P7C 4W1
For general information telephone
(807) 475- 6110
Toll-free 1-800-465-5005

Gary Polonsky, President
Durham College of Applied Arts and Technology
P.O. Box 385
2000 Simcoe Street North
Oshawa, Ontario L1H 7L7
For general information telephone
(416) 576-0210
Toll-free 1-800-668-5843

Dr. Barry Moore, President
Fanshawe College of Applied Arts and Technology
1460 Oxford Street East
London, Ontario N5W 5H1
For general information telephone
(519) 452-4100

Douglas E. Light, President
George Brown College of Applied Arts and Technology
P.O. Box 1015, Station B
Toronto, Ontario M5T 2T9
For general information telephone
(416) 867-2000, 867-2464

Wayne F.J. Busch, President
Georgian College of Applied Arts and Technology
One Georgian Drive
Barrie, Ontario L4M 3X9
For general information telephone
(705) 728-1951, 722-1511
Toll-free 1-800-461-9696

Robert A. Gordon, President
Humber College of Applied Arts and Technology
P.O. Box 1900
205 Humber College Boulevard
Etobicoke, Ontario M9W 5L7
For general information telephone
(416) 675-5000

Tony Wilkinson, President
Lambton College of Applied Arts and Technology
P.O. Box 969
1457 London Road
Sarnia, Ontario N7T 7K4
For general information telephone
(519) 542-7751

Douglas Auld, President
Loyalist College of Applied Arts and Technology
P.O. Box 4200
Wallbridge/Loyalist Road
Belleville, Ontario K8N 5B9
For general information telephone
(613) 969-1913

Keith L. McIntyre, President
Mohawk College of Applied Arts and Technology
Fennell Avenue and West 5th
Box 2034
Hamilton, Ontario L8N 3T2
For general information telephone
(416) 575-2000, 575-2115

John Saso, President
Niagara College of Applied Arts and Technology
P.O. Box 1005
Woodlawn Road
Welland, Ontario L3B 5S2
For general information telephone
(416) 735-2211 ext. 542

R. J. Gervais, President
Northern College of Applied Arts and Technology
P.O. Box 2002
South Porcupine, Ontario P0N 1H0
For general information telephone
(705) 235-3211

A. L. Martin, President
St. Clair College of Applied Arts and Technology
2000 Talbot Road West
Windsor, Ontario N9A 6S4
For general information telephone
(519) 972-2727

W. William Cruden, President
St. Lawrence College of Applied Arts and Technology
2288 Parkedale
Brockville, Ontario K6V 5X3
For general information telephone
(613) 345-0660

P. R. Doyle, President
Sault College of Applied Arts and Technology
P.O. Box 60
443 Northern Avenue
Sault Ste. Marie, Ontario P6A 5L3
For general information telephone
(705) 759-6700
Toll-free 1-800-461-2260

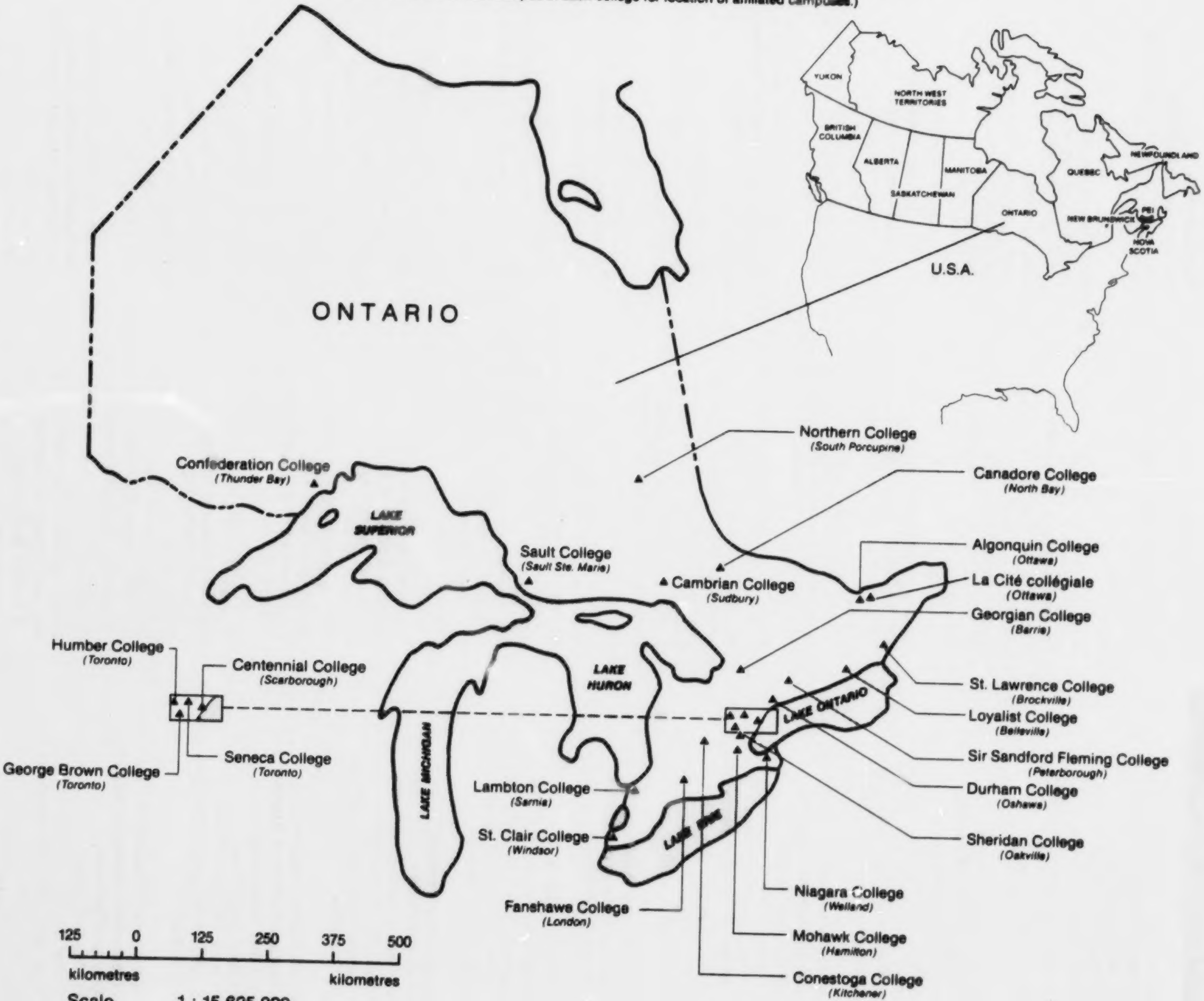
W. R. McCutcheon, President
Seneca College of Applied Arts and Technology
1750 Finch Avenue East
North York, Ontario M2J 2X5
For general information telephone
(416) 491-5050

Mary E. Hofstetter, President
Sheridan College of Applied Arts and Technology
1430 Trafalgar Road
Oakville, Ontario L6H 2L1
For general information telephone
(416) 849-2800, 849-2816, 845-9430 ext. 800

Dr. Brian L. Desbiens, President
Sir Sandford Fleming College of Applied Arts and Technology
Brealey Drive
Peterborough, Ontario K9J 7B1
For general information telephone
(705) 749-5500
Toll-free 1-800-461-6423

Geographic Distribution of Ontario Colleges of Applied Arts and Technology (Main Campuses)

(Please contact the main campus of each college for location of affiliated campuses.)


YUKON
NORTH WEST TERRITORIES
BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
MANITOBA
ONTARIO
QUEBEC
NEWFOUNDLAND
NEW BRUNSWICK
PEI
NOVA SCOTIA
U.S.A.
ONTARIO
LAKE SUPERIOR
LAKE HURON
LAKE MICHIGAN
LAKE ONTARIO
LAKE ERIE
Confederation College (Thunder Bay)
Northern College (South Porcupine)
Canadore College (North Bay)
Sault College (Sault Ste. Marie)
Cambrian College (Sudbury)
Algonquin College (Ottawa)
La Cité collégiale (Ottawa)
Georgian College (Barrie)
St. Lawrence College (Brockville)
Loyalist College (Belleville)
Sir Sandford Fleming College (Peterborough)
Durham College (Oshawa)
Sheridan College (Oakville)
Humber College (Toronto)
Centennial College (Scarborough)
Seneca College (Toronto)
George Brown College (Toronto)
Lambton College (Sarnia)
St. Clair College (Windsor)
Fanshawe College (London)
Niagara College (Welland)
Mohawk College (Hamilton)
Conestoga College (Kitchener)
125 0 125 250 375 500
kilometres
kilometres
Scale

Legend

* : Program is offered at the college indicated. Call the college for details.
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P : Program is possible.
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Tques : Techniques.
Ty : Technology
☐ : Co-op program.

Apprenticeships

		Algonquin (Ottawa)	Cambrian ((Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	La Cité collégiale (Ottawa)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian ((Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	St. Clair (Windsor)	St. Lawrence (Kingston)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)
1.1	**Apprenticeships, Regulated**																							
1.1.1	Alignment & Brakes Mechanic				*																			
1.1.2	Auto Body Repairer	*			*					*						*								
1.1.3	Automotive Machinist				*																			
1.1.4	Automotive Painter				*																			
1.1.5	Baker	*									*													
1.1.6	Barber										*													
1.1.7	Boilermaker (Construction)				*								*											
1.1.8	Boilermaker (Shop)													*										
1.1.9	Brick & Stone Mason										*					*								*
1.1.10	Cabinetmaking		*	P						*														
1.1.11	Carpenter, Forming (Preapprenticeship)																			*				
1.1.12	Carpenter, General	*	*	P			*	*		*	*	*				*			*					*
1.1.13	Cook	*		*			*			*	*	*	*				*				*			
1.1.14	Electrical Motor & Apparatus Rewinding & Repair						*																	
1.1.15	Electrician	*					*	*	*	*	*		*			*		*	*	*	*			*
1.1.16	Farm Equipment Mechanic									*														
1.1.17	Fitter/Welder		*	P			*		*	*	*					*					*		*	
1.1.18	Fuel & Electrical Systems Mechanic				*																			
1.1.19	Glazier & Metal Mechanic	*									*													
1.1.20	Hairdresser/Hairstylist	*								*	*								*	*	*			
1.1.21	Heavy Duty Equipment Mechanic		A	P	*			*										*			*			
1.1.22	Industrial Electrician								*	*									*	*				
1.1.23	Industrial Woodworker	*					*		*	*			*			*								
1.1.24	Ironworker										*													
1.1.25	Lather	*				F																		
1.1.26	Machinist, General	*	*	P	*		*		*	*	*	*				*	*			*			*	*
1.1.27	Millwright		*	P		F	*	*	*	*	*	*				*	*	*	*	*	*		*	*
1.1.28	Millwright (Refresher)		*																					
1.1.29	Motor Vehicle Mechanic	*		*	*		*	*	*	*					*	*	*	*	*	*	*		P	
1.1.30	Motor Vehicle Mechanic (Truck/Coach) - Map 40						*			*						*				*	*			
1.1.31	Motorcycle Mechanic				*																			
1.1.32	Mould Maker				*		*		*	*	*					*							*	
1.1.33	Painter & Decorator												*											
1.1.34	Plumber	*					*			*	*		*			*			*	*	*			
1.1.35	Precision Sheet Metal Fabrication	*																						
1.1.36	Radio & Television Tn										*													
1.1.37	Refrigeration & Air-Conditioning Mechanic	*	*								*					*								
1.1.38	Saw Filer Fitter			P														P						
1.1.39	Sheet Metal Worker	*								*	*		*			*								
1.1.40	Sprinkler & Fire Protection Installer										*													
1.1.41	Steam Fitter								*		*										*			
1.1.42	Tool & Die Maker				*		*		*	*	*	*				*	*						*	*
1.1.43	Transmission Mechanic				*																			
1.1.44	Truck/Trailer Repairer				*																			

Please check with the college for the campus(es) at which the program of your choice is available.

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		Algonquin (Ottawa)	Cambrian ((Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	La Cité collégiale (Ottawa)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian ((Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	St. Clair (Windsor)	St. Lawrence (Kingston)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)
1.2	**Other Apprenticeships**																							
1.2.1	Fitter, Structural Steel Plate Work		*								*									*			*	
1.2.2	Horticulturist	*											*			*								
1.2.3	Industrial Electrician								*							*								
1.2.4	Industrial Electronic Controls						*	*			*					*		*			*			
1.2.5	Industrial Woodworker	*					*			*						*								
1.2.6	Maintenance Tn																				*			
1.2.7	Marine & Small Engine Mechanic			P	*									*							*			*
1.2.8	Plastics Mechanic																							*
1.2.9	Precision Metal Fabrication	*							*															
1.2.10	Retail Meat Cutter	*		P							*													
1.2.11	Stationary Engineering													*										
1.2.12	Stationary Engineering (2nd Class)																				*			
1.2.13	Stationary Engineering (3rd/4th Class)		*					*						*		*	*			*	*			
1.2.14	Truck & Coach Repairer				*																*			
1.2.15	Water Well Driller																							*

Diploma Programs[†]

		Algonquin (Ottawa)	Cambrian ((Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	La Cité collégiale (Ottawa)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian ((Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	St. Clair (Windsor)	St. Lawrence (Kingston)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)
2.1	**Arts, Visual, Creative, General**																							
2.1.1	Advertising Art	*					*			*									*		*			
2.1.2	Animation/Illustration	*																					*	
2.1.3	Apparel Manufacturing Management										*													
2.1.4	Art & Art History																						*	
2.1.5	Art Conservation Tques																							*
2.1.6	Art Fundamentals													*									*	
2.1.7	Arts Administration/Management		A					*					*									*		*
2.1.8	College Vocational/Opportunities	P	A	*				*					*		*		*	*				*		*
2.1.9	Commercial Art & Design/Packaging Design												*			*			*		*			
2.1.10	Commercial Ceramics										*													
2.1.11	Community Integration through Co-operative Education												*											
2.1.12	Community Musician		*																					
2.1.13	Computer Animation																						*	
2.1.14	Computer Graphics																					*	*	*
2.1.15	Crafts & Design/Material Arts/Furniture Accessory			*																	*		*	
2.1.16	Creative &/or Commercial Arts & Crafts[1]				*							*									*		*	
2.1.17	Design Arts/Basic Design/Fundamentals											*	*								*	*	*	
2.1.18	Esthetician																					*	*	
2.1.19	Fashion Arts/Modelling/Design/Merchandising		*		*					*	*	*	*				*			*		*	*	*
2.1.20	Fine Arts & Crafts/Administration		*							*				*				*		*	*			*
2.1.21	Florist, Retail	*				F							*											
2.1.22	General Arts & Science	*	B	*	*	F	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
2.1.23	Graphic Arts Reproduction: Production Co-ordinator															*								
2.1.24	Graphic Design/Fundamentals	*	*	*		F	*		*	*	*	*	*	*						*			*	

[†] Diploma Programs are of 4 semesters duration or more. Some of the programs in this section are postdiploma programs or other certificate programs. Call the college for details. 1. May include: Art Resources, bookbinding, Ceramics, Fabrics, Glass, Visual Arts.

Legend

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2.1.25	Graphic Sign Design & Production										•													
2.1.26	Horsemanship/Equine Care/Harness/Horse Industry Operation												•			•						•		
2.1.27	Industrial Design									☐•		•	•											
2.1.28	Interior Design/Decorating	•			•	F		•	•	☐•		•	•				•		•				•	
2.1.29	Jewellery & Metal Arts/Repairs/Watchmaking										•	☐•												
2.1.30	Landscape Design/Grounds Maintenance	•				F				☐•			•	☐P					•					
2.1.31	Museum Technology	•				F																		
2.1.32	Music		•										•			•								
2.1.33	Music Recording /Production									•														
2.1.34	Painting		•																		•			
2.1.35	Pottery		•																					
2.1.36	Sign Writing(Commercial Art)/Screen Printing/Print Making		•								•										•			
2.1.37	Theatre Arts/Performing Arts/Music Theatre		•								•		•										•	
2.1.38	Urban Design									•														
2.1.39	Visual & Creative Art Design																•							
2.1.40	Visual Arts: Merchandising																				•	•	•	
2.2	**Business**																							
2.2.1	Accounting Clerk - Microcomputer																					•		
2.2.2	Accounting/Accounting & Finance Administration							•					•	•	•							•		
2.2.3	Air Carrier/Airport Management							•																
2.2.4	Appraisal & Assessment														•					•				
2.2.5	Automotive Parts Merchandising/Parts Management & Automotive Parts							•								•								
2.2.6	Band Management							•																
2.2.7	Business	•	•	B	•	F	•	•	•	☐•	•		•	•	•	☐•		B		•	•	•	•	•
2.2.8	Business - Accounting	•	B	•	•	F		•	•	•	☐•	☐•				☐•	☐•	B	•	•	•	•	•	•
2.2.9	Business - Advertising																			•	•			
2.2.10	Business - Distribution Management										•													
2.2.11	Business - Finance									•														
2.2.12	Business - Human Resources/Personnel Management							•	•											•			•	
2.2.13	Business - Information Systems	•	☐B		•	F	•		•	☐•	☐•	•	☐•		•			B	•	•			•	•
2.2.14	Business - Insurance										•					•								
2.2.15	Business - Marketing	•	B		•	F		•	•	•	•	☐•	•		•	☐•		B	•	•		•	•	
2.2.16	Business - Materials Management								•															
2.2.17	Business - Office Systems			•																				•
2.2.18	Business - Purchasing									•														
2.2.19	Business - Retailing/Retail Management/Fashion Retail Admin.	☐•							•		•		☐•				☐•		•				•	
2.2.20	Business - Sales														•		•							•
2.2.21	Business - Transportation & Distribution							•															•	
2.2.22	Business Admin. - International Business/International Trade/Pacific Export				☐•														•			•		•
2.2.23	Business Admin. - Marketing/Marketing Admin./Marketing Management	•	B	•	☐•	F	•	☐•	•	☐•	•	☐•	•	•			☐•	B	•	•		☐•	☐•	•
2.2.24	Business Admin. - Small Business Management/Small Business Admin.	•		•	☐•						☐•	•										☐•		
2.2.25	Business Administration	•	B	B	☐•	F	•		•	•	•	☐•	☐•	•	•	•		B	•	•	•	☐•	•	•
2.2.26	Business Administration - Accountant/Programmer Analyst				☐•							•												
2.2.27	Business Administration - Accounting	•	☐B	☐•	☐•	F		•	•	☐•	☐•	☐•				•	☐•	B	•	☐•	•	•	☐•	•

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2.2.28	Business Administration - Automotive Marketing											B												
2.2.29	Business Administration - Finance/Financial Services Administration	*				F							*										*	
2.2.30	Business Administration - Human Resources Management												*				*			*		*	*	*
2.2.31	Business Administration - Information Systems	*	B			F	*		*		*	*					*	B	*	*				*
2.2.32	Business Administration - Materials Management	*					*					*												*
2.2.33	Business Administration - Operations Management				*				*								*							
2.2.34	Business Computer Systems																					*		
2.2.35	Business Office Procedures & Retail Sales																				*			
2.2.36	Communication et bureautique					F																		
2.2.37	Computer Operator	*				F																		
2.2.38	Computer Programmer Analyst			*	*		*	*				*		*							*	*	*	
2.2.39	Computer Programmer/Computer Programming & Operating	*		*	*	F				*	*	*	*	*		*	*	*		*	*	*	*	
2.2.40	Computer Sales & Marketing												*											
2.2.41	Computers Advanced Software Applications																						*	
2.2.42	Court Reporting										*													
2.2.43	Dental Office Administration										*													
2.2.44	Desktop Publishing Techniques	*																						
2.2.45	Dicta Typist																					*		
2.2.46	Direct Marketing														*									
2.2.47	Entrepreneurship/Small Business Management			*			*											A						
2.2.48	Equal Opportunity Management		*																					
2.2.49	Farm Business Management									*														*
2.2.50	Health Office Administrator									*														
2.2.51	Indian Economic Development							*																
2.2.52	Industrial Marketing								*															
2.2.53	Industrial Relations						*																	
2.2.54	International Freight Forwarding & Customs Brokerage																					*		
2.2.55	Investment Sales Assistant										*													
2.2.56	Legal Assistant/Legal Administration	*	*	*	*	F			*	*		*				*	*		*	*		*		*
2.2.57	Legal Technician		B																					
2.2.58	Marketing - Computer Data Products											*												
2.2.59	Medical Transcriptionist	*														*								
2.2.60	Microcomputer Management			*				*					*											
2.2.61	Municipal Administration & Assessment									*														
2.2.62	Municipal Administration/Government Administration									*										*		*		
2.2.63	Office Administration - Engineering								*															
2.2.64	Office Administration - Executive	*	B	B	*	F	*		*	*	*	*	*	*	*	*	*	B	*	*	*	B	*	*
2.2.65	Office Administration - General	*	B	B	*				*	*	*	*	*	*	*	*	*	B/A	*	*			*	
2.2.66	Office Administration - Legal	*	B	*	*				*	*	*	*	*	*	*	*		B		*	*	*	*	*
2.2.6	Office Administration - Medical	*	B	*	*				*	*	*	*	*	*	*	*		B	*	*	*	*	*	*
2.2.68	Office Administration - Office Systems										*												*	
2.2.69	Office Administration - Word Processing			*					*		*		*						*			B		*
2.2.70	Office Systems Administration	*	*		*		*		*	*			*		*		*					*		*
2.2.71	Property Management/Real Property Administration										*											*		
2.2.72	Real Estate & Insurance Management																				*			
2.2.73	Records & Information Management	*									*											*	*	

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2.2.74	Records Operations	*																						
2.2.75	Recreational Marine Management																			*				
2.2.76	Sales - Industrial/Sales - Technical/Sales Management													*			*					*		
2.2.77	Small Business - Office Automation														*									
2.2.78	Systems Analyst																						*	
2.2.79	Telecommunications Management 11								*														*	
2.2.80	Word Processing	☐*				F																		
2.3	**Communications**																							
2.3.1	Advertising,Creative &/or Business/Management	*	*		*				*			*	*		*	*			*			*	*	
2.3.2	Book & Magazine Publishing				*																			
2.3.3	Book Editing & Design				*																			
2.3.4	Broadcasting, Radio			*						*			*		*	*								
2.3.5	Broadcasting, Radio & Television	*			*		*	*						☐*			*					*		
2.3.6	Broadcasting,Television			*						*					*	*								
2.3.7	Communication Arts/Organizational				*																			
2.3.8	Film Production/Cinematography				*			*					*											
2.3.9	Graphic Communications			*																				*
2.3.10	Human Relations																*							
2.3.11	Journalism, Photo														*									
2.3.12	Journalism, Print/Broadcast/General	*	*	*	*	F	*		*	*			*	☐*	*	*	*		*				*	
2.3.13	Media Arts/Media Arts Writing																						*	
2.3.14	Nature Interpreter												*											
2.3.15	Photographic Arts/Merchandising												*										*	
2.3.16	Photographic Laboratory Operator/Technician												*											
2.3.17	Photography	*				F		*		*			*										*	
2.3.18	Public Relations												*											
2.3.19	Public Relations, Creative &/or Business	*	A		*	F			*				*								*			
2.3.20	Radio & Television Writing				*	F																		*
2.3.21	Telecommunications Management																						*	*
2.3.22	Writer Technical	*																						
2.4	**Community Services**																							
2.4.1	Activation Co-ordinator										*													
2.4.2	Applied Social Researcher																						*	
2.4.3	Behavioural Science/Mental Health Worker				*	F				*										*				
2.4.4	Child and Youth Worker	*	A		*	F		*		*	*		*			*		B/A	*	*	*			
2.4.5	Coaching Tques																					*		
2.4.6	Communicative Disorders Assistant (Post-Basic)											*												
2.4.7	Community Gerontology							*																
2.4.8	Computer Applications for Exceptionalities (Post-Basic)							*																
2.4.9	Correctional Worker/Community Worker	*	A		*	F					*		*							*	*		*	*
2.4.10	Counsellor: Employment																							*
2.4.11	Counsellor:Special Care/Residential/Rehab/Workshop Rehab				*								*											
2.4.12	Developmental Services Worker	*	A		*	F		*		*		*	*		*		*	A	*	*	*			
2.4.13	Early Childhood Education (Special Needs)												*									*		
2.4.14	Early Childhood Education/Day Care Worker	*	A	*	*	F	*	*	*	*	*	*	*	*	*	*	B	A	*	*	*	*	*	*
2.4.15	Early Childhood Education/Resource Teacher (Post-Basic)	*			*		*			*	*	*	*	*			*			*		*		

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2.4.16	Firefighter:Emergency Duties & Rescue																					*		
2.4.17	Fitness & Health Promotion/Management		*							*	*													
2.4.18	Human Services Counsellor/Management				*				P		*												*	
2.4.19	Human Services: Family Worker (Post-Basic)										*													
2.4.20	Indian Economic Development							*																
2.4.21	Infant/Toddler Care & Education Tques (Post-Basic)									*				*							*			
2.4.22	Law & Security Administration [2]	*	A	*		F	*	*	*	*		*	*	*	*	*	*		*	*	*	*	▨	*
2.4.23	Municipal Planning & Development Tn															*								
2.4.24	Native Child & Family Worker/Community Care		*					*								*					*			
2.4.25	Nursery Aide/Family Day Care										*			*										
2.4.26	Ontario Native Education (Alcoholism & Drug Abuse Worker)																	*						
2.4.27	Ontario Native Education (Social Service Worker/Business Admin)			*								*						*						
2.4.28	Outdoor Recreation Tn/Golf Course Tn													P								▨		
2.4.29	Parks Operation & Services													*								▨		
2.4.30	Piano Tn										*													
2.4.31	Protective Security	*				F																		
2.4.32	Recreation for Special Populations (Post-Basic)											*												
2.4.33	Recreation Older Adults	*				F																*		
2.4.34	Security Systems Implementation & Design							*																*
2.4.35	Sign Language Interpreter/Communicator																		*				*	
2.4.36	Social Services Worker	*	A	*	*	F	*	*		*			*	*	*	*	*	A				*	*	*
2.4.37	Sports Administration								*															
2.4.38	Sports Equipment Specialist												*											
2.4.39	Sports Facilities/Recreational/Events Management	*	▨	*	*	F	*	*		*			*		*	*					*	*		*
2.4.40	Wellness & Lifestyle Management				*																			
2.4.41	Working with Families (Post-Basic)										*													
2.5	**Food, Hospitality & Tourism**																							
2.5.1	Baking Techniques	*									*													
2.5.2	Convention Management				*																			*
2.5.3	Cook	*							*												*			
2.5.4	Flight Services																					*		
2.5.5	Food Service Mgt/Supervision/Culinary Mgt/Beverages/Chef (Pre-emp)			*	*		*	*	*		*	▨	*			*	▨		*		*			*
*2.5.6	Home Economics/Management/Dietary Services				*																			*
2.5.7	Hospitality & Tourism							*																
2.5.8	Hospitality Administration & Services/Travel			*	*							▨		▨										*
2.5.9	Hotel/Motel/Restaurant Management,Operation	A	B	B	*	F		A		▨	*	▨	*		*		▨			▨	*		*	*
2.5.10	Retail Meat Cutting	*									*													
2.5.11	Tourism Marketing/Management				*							▨									*			*
2.5.12	Tourism/Travel/Transportation	A			*	F		*		▨			*		*	*	▨		*			*	*	*
2.5.13	Travel Counsellor	*																						
2.6	**Health (Allied)**																							
2.6.1	Ambulance & Emergency Care	*	A		*	F	*			*		*	*				*	*	*		*			
2.6.2	Animal Health Care																		*	*		*	*	
2.6.3	Chiropody										*													
2.6.4	Community & Health Services (Multidiscipline,Post-Basic) [3]	*	*			F		*	*	*	*	*	*			*						*		

2. There are a number of specializations within the program, such as customs, correctional services, police educations, and loss prevention management. Students should contact colleges for information regarding options. 3. Various programs in clinical specialities are offered.

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2.6.5	Dental Assistant/Hygienist	*	A	*		F		*	*	*	*	*					*		*			*		
2.6.6	Dental Ty/Denture Therapy										*													
2.6.7	Funeral Services [4]												*											
2.6.8	Gerontology - Multidiscipline, Postdiploma	*	A		*		*	*	*	*		*	*	*	*		*	*	*	*	*	*	*	
2.6.9	Health Care Administration									*														
2.6.10	Health Records Tn/Administration	*						*		*	*						*							
2.6.11	Health Sciences (Preparatory)									*	*													
2.6.12	Medical Laboratory Ty [5]	*	*	*		F				*				*		*			*	*				
2.6.13	Medical Transcriptionist: Health Records																*							
2.6.14	Non-Registered Nurse (Upgrading)	*			*			*		*	*					*								
2.6.15	Nursing [6]	*	A	B	*	F	*	*	*	*	*	*	*	*	*	*	*	B	*	*	*	*	*	*
2.6.16	Nursing (Post-RN: Clinical Specialties)	*	*	*	*	F	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*
2.6.17	Nursing - Refresher (RN)	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
2.6.18	Nursing Assistant	*	B	*	*	F	*	*	*	*	*	*	*	*	*	*	*	B	*	*	*		*	*
2.6.19	Nursing Assistant - Post-RNA Courses [7]	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2.6.20	Nursing Assistant - Refresher (RNA)	*		A		F		*	*	*									*	*	*	*		
2.6.21	Nursing for Registered Nursing Assistants	*																						
2.6.22	Ophthalmic Assistant				*																			
2.6.23	Ophthalmic Dispenser											☐*									*			
2.6.24	Orthotic-Prosthetic Tn/Clinician (Post-Basic)										*													
2.6.25	Pharmacy Assistant	*	A			F							*						*					
2.6.26	Radiography (Medical) Ty		A					*		*						*								
2.6.27	Respiratory Therapy	*		P		F				*														
2.6.28	Sports Injury Management																						*	
2.6.29	Working with the Aged (Post-cert.)	*	B		*		*	*	*	*		*	*	*	*		*	*		*	*	*	*	
2.7	**Instructional Resource Services**																							
2.7.1	Audio-Visual/Instructional Materials/Equipment Tn		*							*			*									*		*
2.7.2	Educational Assistant																						*	*
2.7.3	Educational Resources & Special Needs																*							
2.7.4	Library Tn	A				F				*		*				*						*	*	
2.7.5	Teacher's Aide							*													*			
2.7.6	Teachers of Adults	*																						
2.7.7	Teaching English as a Second Language												*											
2.8	**Technology/Technician Programs**																							
2.8.1	Air-conditioning & Refrigeration Eng Tn									*	*		*	*					*					
2.8.2	Air-conditioning & Refrigeration Eng Ty										*													
2.8.3	Aquaculture Tn																							*
2.8.4	Architectural (Building) Tn				*																			
2.8.5	Architectural (Design) Tn				*			*					*											
2.8.6	Architectural (Design) Ty				*			*					☐*										☐*	
2.8.7	Architectural (Drafting) Tn			*	*						*							B			☐*		☐*	
2.8.8	Architectural (Drafting) Ty																	B			☐*			
2.8.9	Architectural (Mechanical Systems) Tn	*																						
2.8.10	Architectural Tn	*			*	F				*	*				☐*	*		B			☐*			
2.8.11	Architectural Ty	*			*	F				☐*	*				☐*	*		B	*		☐*			
2.8.12	Aviation (Air Carrier Management Operations) Ty											☐*												

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4. An internship of 15 months is required.
5. Program is offered in first year only at Durham College.
6. Program length varies from 6 to 7 semesters.
7. Courses in various specializations are offered.

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2.8.13	Aviation (Air Traffic Services) Ty											⊡												
2.8.14	Aviation (Aircraft Maintenance) Tn			*	*			*																
2.8.15	Aviation (Airport Management Operations) Ty											⊡												
2.8.16	Aviation (Avionics Maintenance) Tn			*	*																			
2.8.17	Aviation (Flight Instructor Training) Tques																					*		
2.8.18	Aviation (Flight Management) Tn							*																
2.8.19	Aviation (Flight) Ty							*													*	*		
2.8.20	Aviation (Manufacturing) Tn							*																
2.8.21	Aviation (Manufacturing) Ty							*																
2.8.22	Aviation (Transportation & Industry) Eng Ty								*															
2.8.23	Aviation Pilot (Rotary Wing) Tques			*																				
2.8.24	Biological (Chemical) Tn				*																	*		
2.8.25	Biological (Industrial Microbiology) Tn				*																			
2.8.26	Biological (Microbiology/Electron Microscopy) Ty				*																	*		
2.8.27	Biological (Research) Ty																					*		
2.8.28	Biological (Sciences) Ty			*	*																			
2.8.29	Building Operation Management Ty		*																			*		
2.8.30	Building Systems Technology	*																						
2.8.31	Business Technology - Information/Communication Systems																			*				
2.8.32	Cartographic (General) Tn					F																		*
2.8.33	Cartographic Tn					F																*		*
2.8.34	Cartographic Ty					F																		*
2.8.35	Chemical (Biochemical) Tn				*																			
2.8.36	Chemical (Biochemical) Ty	*			*	F																		
2.8.37	Chemical (Bioengineering) Ty	*																						
2.8.38	Chemical (Environmental) Eng Ty		*		*														*					
2.8.39	Chemical (Food & Drug) Ty				*				*															
2.8.40	Chemical (Industrial Hygiene) Eng Ty													⊡										
2.8.41	Chemical (Industrial) Eng Tn				*																			
2.8.42	Chemical (Industrial) Eng Ty				*								*											
2.8.43	Chemical (Laboratory) Tn				*								*										*	*
2.8.44	Chemical (Materials Science) Eng Ty		*																					
2.8.45	Chemical (Microbiology) Ty				*								*											
2.8.46	Chemical (Pharmaceutical) Ty				*																	⊡		
2.8.47	Chemical (Polymer) Eng Tn				*																			
2.8.48	Chemical (Polymer) Eng Ty				*																			
2.8.49	Chemical (Waste Management) Eng Ty		*																					
2.8.50	Chemical Eng Tn		*		*									*	*									
2.8.51	Chemical Eng Ty	*	A		*				*				*	⊡	*	⊡			*				⊡	
2.8.52	Chemical Tn				*									*		*								
2.8.53	Chemical Ty				*				*					⊡								⊡		
2.8.54	Civil (Building Construction) Tn				⊡																⊡			
2.8.55	Civil (Construction) Eng Tn		B	*	⊡											*					⊡			
2.8.56	Civil (Drafting) Eng Tn				⊡																			
2.8.57	Civil (Marine) Eng Ty																					*		
2.8.58	Civil (Municipal) Eng Ty				⊡							⊡												

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2.8.59	Civil (Public Works) Eng Tn				☐•																			
2.8.60	Civil (Public Works) Eng Ty				☐•																			
2.8.61	Civil (Resources) Eng Ty											☐•												
2.8.62	Civil (Transportation) Eng Tn				☐•																			
2.8.63	Civil (Transportation) Eng Ty				☐•																			
2.8.64	Civil Eng Tn		A		☐•				•		•	☐•	•		•	☐•		•			☐•	•	☐•	
2.8.65	Civil Eng Ty		•		☐•		•	☐•	•	☐•	•	☐•	☐•		•	☐•		•	•	•	☐•	☐•	☐•	
2.8.66	Computer (Computing Science) Ty	•			•	F												•						
2.8.67	Computer (Data Processing) Tn															☐•								
2.8.68	Computer (Micro) Eng Ty																			☐•				
2.8.69	Computer (Micro) Service Tn																						•	•
2.8.70	Computer (Process Control) Ty			•																				
2.8.71	Computer (Science) Ty				•													•					☐•	•
2.8.72	Computer (Software) Tn																			•				
2.8.73	Computer (Systems) Ty				•				•				•			☐•							•	•
2.8.74	Computer Eng Tn								•											•	☐•			
2.8.75	Computer Eng Ty	•			•	F			•				•				☐•			•	☐•	☐•		
2.8.76	Computer Systems Technician	•				F																		
2.8.77	Construction (Carpentry) Tques						•			•														
2.8.78	Construction (Heavy Equipment) Tn																						•	
2.8.79	Construction (Management) Eng Tn										•													
2.8.80	Construction (Management) Eng Ty									☐•	•													
2.8.81	Construction (Supervisor) Tn									•														
2.8.82	Construction Eng Tn	•				F		☐•							•	☐•			•		•			
2.8.83	Construction Eng Ty	•				F	•				•						•							
2.8.84	Control (Systems) Eng Tn				•																			•
2.8.85	Control (Systems) Eng Ty				•					☐•														
2.8.86	Digital Electronics Eng Tn	•																						
2.8.87	Drafting Tn			•							•			•										
2.8.88	Electrical (Computer/Control) Eng Ty							•																•
2.8.89	Electrical (Electrical Power) Eng Ty											☐•						•						
2.8.90	Electrical (Power) Eng Ty											☐•					☐•	•		•				
2.8.91	Electrical Eng Tn			•			•	•		☐•	•	☐•					•	•		•	•			•
2.8.92	Electrical Eng Tn, Electrical Controls												•											•
2.8.93	Electrical Eng Ty									•	•	☐•						•			•			•
2.8.94	Electrical Eng Ty, Electrical Control Systems											☐•				☐•								
2.8.95	Electromechanical (Drafting) Eng Tn	•																						
2.8.96	Electromechanical (Precision Instruments) Eng Tn	•																						
2.8.97	Electromechanical (Robotics) Eng Tn	•		•									•											•
2.8.98	Electromechanical (Robotics) Eng Ty												•											•
2.8.99	Electronics (Avionics) Eng Tn			•	•																	•		
2.8.100	Electronics (Biomedical) Eng Tn									☐•														
2.8.101	Electronics (Biomedical) Eng Ty									☐•														
2.8.102	Electronics (Broadcast Systems) Eng Ty						•																	
2.8.103	Electronics (Communications) Eng Tn				•																	•		
2.8.104	Electronics (Computer Systems) Eng Ty				•		•		•															•

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2.8.105	Electronics (Computer) Eng Tn								*													*		
2.8.106	Electronics (Computer) Eng Ty				*				*							☐*								*
2.8.107	Electronics (Computer) Tn								*															*
2.8.108	Electronics (Consumer Electronics) Eng Tn																							*
2.8.109	Electronics (Electrophotographic Systems) Tn																					*		
2.8.110	Electronics (Power & Control) Eng Ty				*																	*		
2.8.111	Electronics (Robotics & Process Control) Tn			*						☐*														
2.8.112	Electronics (Telecommunications) Eng Tn			*																				
2.8.113	Electronics (Telecommunications) Eng Ty						*															*		
2.8.114	Electronics (Telephone Systems) Eng Tn																							*
2.8.115	Electronics Eng Tn	☐*	A	*	*	F	*	*	*	*	*	☐*	*	*		*	*	*	*	*	*	*	*	*
2.8.116	Electronics Eng Ty	☐*	A		*	F	*		*	☐*	*	☐*	☐*	☐*	*	☐*	☐*	*	*	☐*	*	*	☐*	*
2.8.117	Electronics Tn [8]																							*
2.8.118	Energy Systems/Conversion Eng Ty															☐*								
2.8.119	Environmental Engineering Ty													☐*										
2.8.120	Environmental Pest Management																							*
2.8.121	Environmental Science Tn			*																	☐*			
2.8.122	Environmental Science Ty			*																	☐*			
2.8.123	Environmental Systems (Energy Management) Eng Ty												*											
2.8.124	Environmental Technology									*											*			
2.8.125	Fibre/Plastics Composites Eng Ty				*																			
2.8.126	Fire (Protection) Tn	*																				*		
2.8.127	Fire (Protection) Ty																					*		
2.8.128	Fish & Wildlife Technology																				*			
2.8.129	Fish & Wildlife Tn																							*
2.8.130	Fluid Power (Robotics) Eng Ty				*																			
2.8.131	Fluid Power Eng Tn				*																			
2.8.132	Food (Drug) Ty								*															
2.8.133	Food (Service Management) Tn																		*					
2.8.134	Food Industry Tn												*											
2.8.135	Forestry (Fish & Wildlife) Ty																				☐*			*
2.8.136	Forestry (Parks & Recreation) Ty																				☐*			☐*
2.8.137	Forestry (Recreation) Tn																							*
2.8.138	Forestry Tn	*				F															☐*			*
2.8.139	Forestry Ty																				☐*			*
2.8.140	Furniture (Production & Design) Tn										*								*					
2.8.141	Furniture (Renovation/Production) Tn																		*					
2.8.142	Geographic Information Systems Technologist	*																						
2.8.143	Geographical (Information Systems) Tn																							*
2.8.144	Geological (Geophysics) Eng Tn		*																					
2.8.145	Geological (Geotechnics/Minerals/Terrain) Tn																				*			*
2.8.146	Geological Eng Ty		*																					*
2.8.147	Geoscience (Data) Eng Tn																							*
2.8.148	Geotechnical Ty																							*
2.8.149	Graphics (Printing) Tn	*				F					*										*			
2.8.150	Graphics (Printing) Ty	P									*								*		*			

8. Program is 55 weeks; program is non-semestered.

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2.8.151	Heating, Refrigeration & Air-conditioning	*																						
2.8.152	Heavy Equipment (Heavy Equipment Specialist) Tn																				☐*		*	☐*
2.8.153	Heritage Carpentry & Millwork	*																						
2.8.154	Horticultural Tn	*	*			F											☐*							
2.8.155	Industrial (Laboratory) Ty																					*		
2.8.156	Industrial (Management) Eng Ty												*			☐*								
2.8.157	Industrial Eng Tn/Production/Quality Control											☐*				*	*							
2.8.158	Industrial Eng Ty	*			*				*			☐												
2.8.159	Industrial Hygiene Ty													*										
2.8.160	Instrumentation (Industrial) Eng Tn				*						*		*	*		*				*				
2.8.161	Instrumentation (Industrial) Eng Ty		*								*			☐*						*				
2.8.162	Instrumentation (Process Control) Eng Tn				*									*						*				
2.8.163	Instrumentation (Process,Measurement & Control) Eng Tn	*			*									*				*						
2.8.164	Instrumentation Eng Tn				*			*						*							*			
2.8.165	Landscape Tn	*											*						*					
2.8.166	Landscape Ty					F							*											
2.8.167	Maintenance Management - Small Communities			*																				
2.8.168	Manufacturing (Numerical Control) Eng Tn																					*		
2.8.169	Manufacturing Eng Tn									☐*			*											
2.8.170	Manufacturing Eng Ty	*			*					*			*				☐*					*		
2.8.171	Marina (Recreation) Ty											☐*												
2.8.172	Marine (Navigation) Ty											☐*												
2.8.173	Marine Eng Ty											☐*								☐*				
2.8.174	Materials Testing Technician															*								
2.8.175	Mechanical (Applied Machine Shop) Tques																				*			
2.8.176	Mechanical (Automated Manufacturing) Eng Ty						*																	*
2.8.177	Mechanical (Automated Manufacturing) Tn								*															
2.8.178	Mechanical (Computer-assisted Design) Eng Ty				*		*		*															
2.8.179	Mechanical (Computer-assisted Manufacturing) Eng Ty				*		*		*						*									
2.8.180	Mechanical (Design & Drafting) Eng Ty				*																		☐*	
2.8.181	Mechanical (Design) Eng Tn				*		*			☐*														
2.8.182	Mechanical (Drafting) Eng Tn						*				*	☐*		*							*		☐	
2.8.183	Mechanical (Energy Management) Eng Ty																		*					
2.8.184	Mechanical (Fluid Power Automation) Eng Tn				*											*								
2.8.185	Mechanical (Hydraulic & Pneumatic) Eng Tn				*																			
2.8.186	Mechanical (Industrial) Eng Tn				*							☐*		*				*			*			
2.8.187	Mechanical (Industrial) Eng Ty				*																			
2.8.188	Mechanical (Machine Shop Operations) Tn			*	*																*			
2.8.189	Mechanical (Mine Maintenance) Eng Tn																	*						
2.8.190	Mechanical (Mine Maintenance) Eng Ty																	*						
2.8.191	Mechanical (Mobile Equipment) Eng									☐														
2.8.192	Mechanical (Nuclear) Eng Ty																					*		
2.8.193	Mechanical (Numerical Control) Eng Tn			*			*						*											
2.8.194	Mechanical (Tool & Die) Eng Tn				*						*		*											*
2.8.195	Mechanical (Tool Design) Eng Ty										*													
2.8.196	Mechanical (Toolmaking) Eng Tn	*				F					*													

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2.8.197	Mechanical Drafting (Design) Eng Tn						•				•		•											
2.8.198	Mechanical Eng Technology - Product Design																		•					
2.8.199	Mechanical Eng Tn	•			•			•	•					•	•	•		•		•	•	•	☐•	
2.8.200	Mechanical Eng Ty	•			•	F			•			☐•		☐•		☐•	☐•	•	•	•	•	•	☐•	
2.8.201	Metallurgical Eng Tn		•							☐•														
2.8.202	Metallurgical Eng Ty		•													☐•								
2.8.203	Minerals Eng Ty																							•
2.8.204	Mining Eng Tn		•															•						
2.8.205	Mining Eng Ty		•															•						
2.8.206	Motive Power (Automotive) Tn				•					•									•					
2.8.207	Motive Power (Diesel) Tn				•					•											•			
2.8.208	Motive Power (Parts Merchandising) Tques									•														
2.8.209	Motive Power (Service Management) Tn				•																			
2.8.210	Motive Power Tn				•																			
2.8.211	Natural Resources (Law Enforcement) Ty																							•
2.8.212	Packaging Management & Ty															☐•								
2.8.213	Piano Tn										•													
2.8.214	Power Eng Tn													☐•					•					
2.8.215	Quality Eng Tn																							•
2.8.216	Quality Eng Ty												•											•
2.8.217	Residential Construction Management										•													
2.8.218	Residential Construction Supervision/Co-ordination						•															•		
2.8.219	Resources (Drilling) Tn																							•
2.8.220	Resources (Environmental) Technology														•									
2.8.221	Resources (Marine) Eng Ty																					•		
2.8.222	Resources (Terrain/Water) Tn																							•
2.8.223	Resources Eng Tn																					☐•		
2.8.224	Resources Eng Ty														•							☐•		
2.8.225	Safety Eng Ty												•											
2.8.226	Science (Laboratory) Tn																							•
2.8.227	Science (Laboratory) Ty									☐•														
2.8.228	Science (Photographic) Tn	•				F																		
2.8.229	Science (Pulp & Paper) Eng Ty																				☐•			
2.8.230	Small Craft & Marina Tn												•											
2.8.231	Small Craft & Marina Ty												•											
2.8.232	Solar Energy Ty												•											
2.8.233	Stationary (Power) Eng Ty		•																					
2.8.234	Stationary (Power/Plant) Eng Tn									•	•						•							
2.8.235	Survey (Aerial) Tn												•											
2.8.236	Survey (Hydrographic) Ty												•											
2.8.237	Survey Tn	•				F		☐•		☐•		☐•	•		•			B						
2.8.238	Survey Ty	•											•					B						
2.8.239	Techniques de construction					F																		
2.8.240	Taxidermy																				•			
2.8.24	Tooling (Plastic) Tn																		•					
2.8.242	Tooling (Toolmaker) Ty				•														•					

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2.8.243	Transportation (Planning) Ty															*								
2.8.244	Tree Maintenance (Urban) Tn												*											
2.8.245	Welding (Fabrication) Tn	*					*																	
2.8.246	Welding Eng Tn						*	*			*							B			*			
2.8.247	Welding Eng Ty																	B						
2.8.248	Welding Specialist Eng Tques						*				*										*			
2.8.250	Woodworking Tn						*																	

Certificate Programs †

3.1	**Academic Improvement**																							
3.1.1	Basic Training for Skill Development (BTSD) - Level I	*	A	*		F		*	*	*	*	*	*		*	*		A	*	*	A		*	*
3.1.2	Basic Training for Skill Development (BTSD) - Level II	*	A	*		F	*	*	*	*	*	*	*	*	*	A	*	A	*	*	A	*	*	*
3.1.3	Basic Training for Skill Development (BTSD) - Level III	*	A	*	*	F	*	*	*	*	*	*	*	*	*	A	*	A	*	*	A	*	*	*
3.1.4	Basic Training for Skill Development (BTSD) - Level IV	*	A	*	*	F	*	*	*	*	*	*	*	*	*	A	*	A	*	*	A	*	*	*
3.1.5	English as a Second Language	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.1.6	English as a Second Language (Advanced)		*						*	*			*					*	*	*		*		*
3.1.7	English for Science & High Technology										*											*		
3.1.8	French as a Second Language	*	*			F												*		*	*			
3.1.9	Preparation for Certificate of Qualification				*											*								
3.2	**Artistic, Literary, Peforming Arts & Related**																							
3.2.1	Commercial Art/Graphic Computer Typesetting										*					*								
3.2.2	Cosmetic Retailing				*																	*		
3.2.3	Floral Design (Basic)		*																					
3.2.4	Retail Florist		*																			*		
3.2.5	Screen Process Printing				*						*													
3.2.6	Sign Writing										*													
3.3	**Business & Clerical**																							
3.3.1	Accounting Assistant		B	*	*		*			*		*	*	*				*	*		*	*	*	
3.3.2	Automated Office Skills			A				*	*											*	*			
3.3.3	Bookkeeper-Typist (Bookkeeping Clerk)	*	*	*					*			*									*		*	
3.3.4	Business Fundamentals																				*			
3.3.5	Business Machines & Bookkeeping/Business & Commerce		*																		*			
3.3.6	Clerk-Typist		A	*	*	F			*	*		P		*							*		*	
3.3.7	Commercial (Refresher)	*	A	*	*	F		*		*		P		*		*					*		*	*
3.3.8	Commercial Clerical		A		*																			
3.3.9	Computer Literacy: Business & Industry						*												*	*				
3.3.10	Computer Operator							*																*
3.3.11	Computer Programmer (Numerical Control)																					*		
3.3.12	Computer-assisted Design Operator										*											*	*	
3.3.13	Data Entry Operator		B																					
3.3.14	Integrated Office Systems																						*	

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3.3.15	Inventory Control, Auto Parts/Production Planning		*		*											*					*			
3.3.16	Legal Secretary				*			*																
3.3.17	Medical Secretary				*			*																
3.3.18	Microcomputer: Business Applications		*						*				*			*							*	
3.3.19	Microcomputer: Operator	*									*			*		*					*		*	
3.3.20	Office Information Administration				*														*					
3.3.21	Office Procedures/Retail Sales																				*			
3.3.22	Office Systems Operations					F	*					*	A			*				*	*	*		
3.3.23	Receptionist-Typist			*	*						*	P											*	
3.3.24	Secretary - Machine Transcription (Dicta-Typist)		*		*							P		*							*	*	*	
3.3.25	Secretary - Shorthand (Stenographer, General)		B	B	*							P									*	*		
3.3.26	Small Business Management	*			*								*			*								
3.3.27	Systems Analyst (Junior)										*													
3.3.28	Teller/Cashier		A																				P	
3.3.29	Travel Counsellor		*		*	F																		
3.3.30	Typing (Refresher)		*					*													*		*	*
3.3.31	Word Processing	☐ *	A		*	F				*		P		*		*		*		*	*		*	*
3.4	**Community Services & Related**																							
3.4.1	Community Improver: Leather & Beadwork																				*			
3.4.2	Family Care Worker																						*	
3.4.3	Home Day Care						*													*				
3.4.4	Home Support (Visiting Homemaker)	*				F	*		*	*	*	*		*	*	*			*	*	*		*	
3.4.5	Nanny		*				*																	
3.4.6	Native Teaching for Natives																				*			
3.4.7	Redirection Through Education			*							*											*	P	
3.4.8	Support Worker for the Physically Disabled												*											
3.5	**Construction Trades**																							
3.5.1	Back-Hoe Operator																						P	
3.5.2	Bricklaying								*	*											*			
3.5.3	Bricklaying (Preapprenticeship)			*						*														
3.5.4	Cabinetmaking (Basic Fundamentals)	*	*	*		F			*	*		*	*		*	*					*			
3.5.5	Carpenter, Basic			*			*	*	*			*								*	*			
3.5.6	Carpenter, General	*	*	*		F	*			*	*	*		*		*	*	A		*	*			
3.5.7	Carpentry Framing	*																						
3.5.8	Construction Trades Helper	*							*			P						*		*				
3.5.9	Construction Trades Techniques																							*
3.5.10	Decompression (Hyperbaric) Chamber Operator																					P		
3.5.11	Dry-Wall (Taper & Boarder)			*					*			P									*			
3.5.12	Environmental Horticulture I & II		*						*											*	*		*	
3.5.13	Heating, Air-conditioning & Refrigeration	*	*			F		*		*						*								
3.5.14	Ind. Maint. Mechanic: Packaging/Assembly/Repair/Controls/Millwright		*					*	*	*		*	*	*	*	*			*	*	*	*	*	
3.5.15	Industrial Assembler																			*	*			
3.5.16	Industrial Electronics for Journeymen															*		*						
3.5.17	Industrial Woodworking							*																
3.5.18	Masonry		*				*		*		*	*		P						*				
3.5.19	Natural Gas Servicer/Gas Fitter		*								*													

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3.5.20	Oil Burner Service		*																					
3.5.21	Painting & Decorating								*			P												
3.5.22	Pipeline Welding		P																		*		*	
3.5.23	Plastic Floor Covering Installer								*															
3.5.24	Refrigeration & Air-conditioning		*								*													
3.5.25	Residential Building Renovation Helper																				*			
3.5.26	Residential Construction Co-ordinator																					☐ *		
3.5.27	Residential Siding Installer	*																						
3.5.28	Stationary Engineering - 3rd & 4th Class	*																						
3.5.29	Underwater Skills																					*		
3.6	**Disabled**																							
3.6.1	Head Start for the Hearing Impaired	*									*													
3.6.2	Training for the Handicapped Adult		*								*	P	*			*								
3.7	**Farming, Agriculture, Horticulture, Floriculture, Fishing, Animal Care**																							
3.7.1	Dairy Herd Worker									*														
3.7.2	Farm Equipment Mechanic (Pre-Employment)									*														
3.7.3	Farrier																				*			
3.7.4	Forest Nursery Worker																				*			*
3.7.5	Lumber Grader (Hardwood)																							*
3.7.6	Management of Farm Business											*												
3.7.7	Tree Maintenance (Urban)												*											*
3.7.8	Urban Arboriculture												*											
3.8	**Health (Allied)**																							
3.8.1	Health Care Aide	*	A	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.8.2	Hospital Orderly	*				F		*	*								*							
3.8.3	Sign Language Studies																		*					
3.8.4	Training Programs for Students with Learning Disabilities														*									
3.9	**Machining & Related**																							
3.9.1	Business Equipment Servicing	*																						
3.9.2	Fabricating & Welding (Metal)		*						*							*				*	*			
3.9.3	Forestry Filer																	B						
3.9.4	Forestry Millwright																	A						
3.9.5	Industrial Mechanic/Millwright		*	*		F		*	*	*		*						*	*	*			*	
3.9.6	Industrial Mechanic/Millwright (Advanced)																			*				
3.9.7	Industrial Mechanical Maintenance Tques							*																
3.9.8	Machine Operator					F				*														
3.9.9	Machine Shop	*	*	*	*			*	*		*	*	*	*		*	*		*	*	*	*	*	
3.9.10	Machinist - General/Automatic									*		*	*				*		*	*			*	
3.9.11	Machinist - Industrial Craftsperson									*														
3.9.12	Millwright (Refresher)		*																					
3.9.13	Mould Making								*		*								*					
3.9.14	Numerical Control - Machine-Tool Programmer								*							*				*			*	
3.9.15	Numerical Control - Machine-Tool Setter Operator						*		*												*		*	
3.9.16	Numerical Control Machining		*				*					*					*							
3.9.17	Tool & Die Making								*	*		*				*							*	
3.9.18	Welding Fitter	*	A	*		F	*	*	*	*	*	*	*			*		*		*	*		*	

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3.9.19	Welding Fitter (Refresher)		*								*		*	*		*					*		*	
3.9.20	Welding Tques							*																
3.9.21	Welding, High-Pressure Pipe (Upgrading/Refresher/Advanced)							*			*		*								*			
3.9.22	Welding, Layout Fitting																				*		P	
3.9.23	Welding, Operator		*						*	*	*	P				*				*	*		*	
3.10	**Managerial, Administrative & Related**																							
3.10.1	Native Economic Development & Small Business																							*
3.10.2	Ontario Native Education (Indian Band Management) I,II,III,IV [9]							*						*		*					*			
3.10.3	Self-Employment Skills											*												
3.10.4	Small Business Management	*		*	*	F										P		*			*			
3.11	**Material Handling & Related**																							
3.11.1	Heavy Equipment Operator (Multiple Machines)			*																			*	
3.11.2	Loader Bulldozer Operator																						*	
3.11.3	Sideboom Operator																						*	
3.11.4	Tower & Mobile Crane Operator																						P	
3.12	**Mining & Quarrying**																							
3.12.1	Diamond Drill Operator (Surface & Underground)																	A						
3.12.2	Drilling & Blasting																							*
3.13	**Natural Sciences, Engineering & Mathematics**																							
3.13.1	Blueprint Reading: Construction/Mechanical		*																				*	
3.13.2	Computer Programmer (Numerical Control)																					*		
3.13.3	Computer Software																					*		
3.13.4	Drafting		*						*		*					*				*				
3.13.5	Drafting (Refresher)																						*	
3.13.6	Drafting, Mechanical /Electrical							*																
3.13.7	Drafting, Mechanical Engineering										*													
3.13.8	Drafting, Process Piping													*		*				*				
3.13.9	Electronic Data Processing I, II, III				*																			
3.13.10	Introduction to Computer-assisted Drafting & Design										*												*	
3.13.11	Numerical Control Machine Programmer		*			F							*			*								
3.13.12	Quality Control															*								
3.14	**Processing**																							
3.14.1	Forestry, Sawyer & Millwright																	*						P
3.14.2	Logging & Small Sawmill Operator			*																				*
3.14.3	Process Operations													*										
3.15	**Product Fabricating, Assembling & Repairing**																							
3.15.1	Aircraft Maintenance Tn				*																			
3.15.2	Apparel Design & Pattern Drafting										*													
3.15.3	Appliance Servicing		*				*				*			*										
3.15.4	Avionics				*																			
3.15.5	Business Equipment Servicing	*									*													
3.15.6	Computer-assisted Design/Manufacturing Tques								*							*								
3.15.7	Courseware Design & Production																						*	
3.15.8	Diesel Electric Mechanic				*																			
3.15.9	Diesel Engine Mechanic				*																			
3.15.10	Electrical Instrumentation Mechanic																			P				

[9] Only Part IV is available at Confederation College, Mohawk College, and Sault College.

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3.15.11	Electromechanical (Maintenance) Tn																			*				
3.15.12	Electronic Assembly & Repair							*																
3.15.13	Electronic Systems Tester	*																						
3.15.14	Electronics Servicing Techniques							*																
3.15.15	Electronics, Automated Office Systems Servicing										*													
3.15.16	Electronics, Basic								*															
3.15.17	Electronics, Basic Skill							*			*													
3.15.18	Electronics, Digital Equipment & Systems								*		*		*							*		*		
3.15.19	Electronics, Equipment Assembly																			*			*	
3.15.20	Electronics, General Servicing							*	*														*	
3.15.21	Electronics, Industrial Control					F				*	*							*						
3.15.22	Electronics, Manufacturing Assembly	*																						
3.15.23	Electronics, Mobile Radio								*				*											
3.15.24	Electronics, Radio/Hi-Fi/Television Servicing								*				*						*					
3.15.25	Fitter, Structural Steel Plate Work (Preapprenticeship)		*																					
3.15.26	Fluid Power Control Mechanic			*	*																			
3.15.27	Fork Lift Vehicle Mechanic				*				*															
3.15.28	Fundamentals of Robot Maintenance & Repair								*															
3.15.29	Furniture, Upholstery & Repair									*	*													
3.15.30	Furniture, Woodworking & Finishing									*	*													
3.15.31	Heating/Tn/Services			P		F					*													
3.15.32	Heavy Duty Equipment Mechanic		A	*	*			*		*								A			*		*	
3.15.33	Heavy Equipment Field Servicing																						P	
3.15.34	Industrial Electrician							*																
3.15.35	Industrial Electronic Controls - Journeyman										*							*			*			
3.15.36	Industrial Instrumentation		*					*			*										*		*	
3.15.37	Industrial Maintenance Mechanic		*				*	*	*	*		*	*	*			*	*	*		*	*	*	
3.15.38	Industrial Power Sewing										*													
3.15.39	Industrial Power Sewing Machine Mechanic										*													
3.15.40	Instrumentation for Plumbers & Steamfitters																			*				
3.15.41	Marina Techniques																							*
3.15.42	Marine & Snow Vehicle Maintenance				*																P			
3.15.43	Mechanic, Marine																							*
3.15.44	Mechanic, Marine & Small-powered Equipment			*	*	F		*		*		*	*	*							*		*	
3.15.45	Mechanic, Motor Vehicle			*	*				*					*							*			
3.15.46	Mechanic, Motor Vehicle (Advanced Electronics)															*								
3.15.47	Microcomputer Maintenance										*										*			
3.15.48	Motive Power Techniques - Small Powered Equipment							*																
3.15.49	Motorcyle Repair				*																*			
3.15.50	Moulding & Set-up Mechanic: Plastics										*													
3.15.51	Plastics Processing Equipment Mechanic										*													
3.15.52	Precision Electronic Assembly	*														*								
3.15.53	Precision Metal Fabrication								*															
3.15.54	Sawmill Tn			*																				
3.15.55	Stationary Engineering 3rd & 4th Class							*																
3.15.56	Steel Fitter										*													

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3.15.57	Toolmaking											*					*		*					
3.16	**Sales**																							
3.16.1	Automotive Merchandising				*			*								*								
3.16.2	Inventory Control		*		*											*								
3.16.3	Retail Merchandising				*	F															*			
3.16.4	Retail Merchandising (Supervisor)				P																			
3.16.5	Retail Sales					F																		
3.16.6	Retailing																							*
3.17	**Service**																							
3.17.1	Audio Equipment Systems (Electronics)										*													
3.17.2	Baking Tques	*		*						*	*													
3.17.3	Bartending	*	*			F					*	*												
3.17.4	Building Maintenance					F															*			
3.17.5	Butcher & Meat Cutter			*																				
3.17.6	Cuisine commerciale					F																		
3.17.7	Dining-Room Service		*			F					*										*			
3.17.8	Food & Beverage Service									*														
3.17.9	Food Preparation, Advanced		A	*		F			*	*	*	*				*	*		*	*	*			
3.17.10	Food Preparation, Basic		A	*		F		*	*		*	*				*	*		*		*			
3.17.11	Food Service & Bartending										*	P												
3.17.12	Hairdressing																			*	*			
3.17.13	Hairstyling																		*	*	*			
3.17.14	Hairstyling for Barbers																				*			
3.17.15	Hospitality - Administration & Food Service																		*	*				
3.17.16	Hospitality - Modified Accomodations & Food Service		*																		*			
3.17.17	Hotel, Front Office & Operation	*				F					*													
3.17.18	Retail Meat Cutting	*		*		F					*													
3.18	**Transport Equipment Operating**																							
3.18.1	Marine Emergency Duties											*												
3.18.2	Marine Engineer											*												
3.18.3	Marine Navigator											*												
3.18.4	School Bus Driver		*																					
3.18.5	Tractor-Trailer Driver									*	*													
3.18.6	Truck Driver										*												P	
3.19	**Other Crafts & Equipment Operating**																							
3.19.1	Graphic Arts Camera Operator															*								
3.19.2	Lithography & Screen Printing - Layout & Stripping															*								
3.19.3	Offset Printing			P							*					*								
3.19.4	Screen Process Printing		*								*													
3.20	**Unclassified**																							
3.20.1	Basic Employment Training (BET)	*	*	*	*	F					*	*				*		*		*		*	*	
3.20.2	Career Planning	*	A	A		F	*					P	A					A		*	*		*	
3.20.3	Career Planning for Native People																				*			
3.20.4	Career Planning for Women							*																
3.20.5	Entry into Careers in New Technology	*				F				*										*				
3.20.6	Focus for Change	*	A				*		*		*	P				*					*		*	

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3.20.7	Industrial Orientation									*						*				*				
3.20.8	Introduction to Non-Traditional Occupations	*	A	*	*		*	*	*		*	*		*	*			P		*	*	*	*	
3.20.9	Job Readiness	*	A	*	*		*	*		*	*	P	*	*		*		*	*		*	*		
3.20.10	Job-Search Skills for Women		*	*	*													P						
3.20.11	Laboratory Tn														*									
3.20.12	Life Skills/Coach		*															P		*	*			
3.20.13	Nouveau départ					F																		
3.20.14	Ontario Native Education (Industrial Orientation)															*								
3.20.15	Ontario Native Education (Job Readiness)		*								*			*										
3.20.16	Orientation to & Preparation for Trades & Technology																		*					
3.20.17	Orientation to Employment																	P			*			
3.20.18	Pre-Trades Training for Women		*		*																			
3.20.19	Preparation for Trades & Technology		A		*							*		*		*		*	*		*		*	
3.20.20	Retour au travail					F																		
3.20.21	Women into Trades & Technology	*	*	A		F	*	*	*	*	*	P		*	*	*		*	*	*	*	*	*	
3.20.22	Work Skills & Attitude Training				*																			
3.20.23	Working Skills for Women			*							*											*		

Index

How to Use the chart of CAAT Programs

To find a subject in the chart:

1. Locate the desired program name in this alphabetical, cross-referenced index.
2. Note the code number which follows the program name.
3. Turn back to the appropriate numerically coded listing in the chart (pages 13 to 31).

For example, "Business Administration" and a cross-reference, "*Administration, Business*", are listed alphabetically in the index, each with the code number "2.2.25". This code number can be found in numerical sequence in the chart on page 15. It will be seen that "Business Administration" is offered at 21 of Ontario's colleges of applied arts and technology.

Academic Improvement 3.1
Accountant/Programmer Analyst - Business Administration 2.2.26
Accounting - Business Administration 2.2.27
Accounting Assistant 3.3.1
Accounting Clerk - Microcomputer 2.2.1
Accounting, Business 2.2.8
Accounting/Accounting & Finance Administration 2.2.2
Activation Co-ordinator 2.4.1
Administration & Assessment, Municipal 2.2.61
Administration, Arts/Management 2.1.7
Administration, Business 2.2.25
Administration, Dental Office 2.2.43
Administration, Food Service, & Hospitality 3.17.15
Administration, Government/Municipal Administration 2.2.62
Administration, Health Care 2.6.9
Administration, Law & Security 2.4.22
Administration, Legal/Legal Assistant 2.2.56
Administration, Municipal/Government Administration 2.2.62
Administration, Office Information 3.3.20
Administration, Office Systems 2.2.70
Administration, Sports 2.4.37
Administration/Fine Arts & Crafts 2.1.20
Administration/Tn, Health Records 2.6.10
Administrator, Health Office 2.2.50
Adults, Teachers of 2.7.6
Advanced Food Preparation 3.17.9
Advanced Industrial Mechanic/Millwright 3.9.6
Advanced Mechanic, Motor Vehicle Electronics 3.15.46
Advertising Art 2.1.1
Advertising, Business 2.2.9
Advertising,Creative &/or Business/Management 2.3.1
Aged, Working with the (Post-cert.) 2.6.29
Aide, Health Care 3.8.1
Aide, Teacher's 2.7.5
Aide,Nursery/Family Day Care 2.4.25
Air Carrier/Airport Management 2.2.3
Air Traffic Services Ty, Aviation 2.8.13
Air-Conditioning & Refrigeration Mechanic 1.1.37
Air-conditioning & Refrigeration 3.5.24
Air-conditioning & Refrigeration Eng Tn 2.8.1
Air-conditioning & Refrigeration Eng Ty 2.8.2
Air-conditioning, Refrigeration & Heating 2.8.151
Air-conditioning, Refrigeration & Heating 3.5.13
Aircraft Maintenance Tn 3.15.1
Aircraft Maintenance Tn, Aviation 2.8.14
Airport Management Operations Ty, Aviation 2.8.15
Airport Management/Air Carrier 2.2.3
Alcoholism & Drug Abuse Worker, Ontario Native Education 2.4.26
Alignment & Brakes Mechanic 1.1.1
Ambulance & Emergency Care 2.6.1
Analyst, Systems 2.2.78
Analyst, Systems (Junior) 3.3.27
Animal Health Care 2.6.2
Animation, Computer 2.1.13
Animation/Illustration 2.1.2
Apparatus Rewinding & Electrical Motor Repair 1.1.14
Apparel Design & Pattern Drafting 3.15.2
Apparel Manufacturing Management 2.1.3
Appliance Servicing 3.15.3
Applied Machine Shop, Mechanical Tques 2.8.175
Applied Social Researcher 2.4.2
Appraisal & Assessment 2.2.4
Apprenticeships, Other 1.2
Apprenticeships, Regulated 1.1
Aquaculture Tn 2.8.3
Arboriculture, Urban 3.7.8
Architectural (Building) Tn 2.8.4
Architectural (Design) Tn 2.8.5
Architectural (Design) Ty 2.8.6
Architectural (Drafting) Tn 2.8.7
Architectural (Drafting) Ty 2.8.8
Architectural (Mechanical Systems) Tn 2.8.9
Architectural Tn 2.8.10
Architectural Ty 2.8.11
Art & Art History 2.1.4
Art Conservation Tques 2.1.5
Art Design, Visual & Creative 2.1.39
Art Fundamentals 2.1.6
Art History & Art 2.1.4
Art, Advertising 2.1.1
Art, Commercial/Graphic Computer Typesetting 3.2.1
Artistic, Literary, Peforming Arts & Related 3.2
Arts & Crafts, Creative &/or Commercial 2.1.16
Arts & Merchandising, Photographic 2.3.15
Arts & Science, General 2.1.22
Arts Administration/Management 2.1.7
Arts, Visual, Creative, General 2.1
Arts, Visual: Merchandising 2.1.40
Arts,Media/Media Arts Writing 2.3.13
Assembler, Industrial 3.5.15
Assembly & Repair, Electronic 3.15.12
Assembly, Equipment (Electronics) 3.15.19
Assembly, Manufacturing (Electronics) 3.15.22
Assembly, Precision Electronic 3.15.52
Assembly/Repair/Controls/Millwright/ Packaging: Ind. Maint. Mechanic 3.5.14
Assessment & Administration, Municipal 2.2.61
Assessment & Appraisal 2.2.4
Assistant, Accounting 3.3.1
Assistant, Educational 2.7.2
Assistant,Communicative Disorders (Post-Basic) 2.4.6
Assistant/Hygienist, Dental 2.6.5
Attitude Training & Work Skills 3.20.22
Audio Equipment Systems (Electronics) 3.17.1
Audio-Visual/Instructional Materials/Equipment Tn 2.7.1
Auto Body Repairer 1.1.2
Auto Parts, Inventory Control/Production Planning 3.3.15
Automated Manufacturing, Mechanical Eng Ty 2.8.176
Automated Manufacturing, Mechanical Tn 2.8.177
Automated Office Skills 3.3.2
Automated Office Systems Servicing, Electronics 3.15.15
Automatic/General Machinist 3.9.10
Automation, Fluid Power (Mechanical), Eng Tn 2.8.184
Automation, Office - Small Business 2.2.77
Automotive (Motive Power) Tn 2.8.206
Automotive Machinist 1.1.3
Automotive Marketing - Business Administration 2.2.28
Automotive Merchandising 3.16.1
Automotive Painter 1.1.4
Automotive Parts Merchandising/ Parts Management & Automotive Parts 2.2.5
Aviation (Air Carrier Management Operations) Ty 2.8.12
Aviation (Air Traffic Services) Ty 2.8.13
Aviation (Aircraft Maintenance) Tn 2.8.14
Aviation (Airport Management Operations) Ty 2.8.15
Aviation (Avionics Maintenance) Tn 2.8.16
Aviation (Flight Instructor Training) Tques 2.8.17
Aviation (Flight Management) Tn 2.8.18
Aviation (Flight) Ty 2.8.19
Aviation (Manufacturing) Tn 2.8.20
Aviation (Manufacturing) Ty 2.8.21
Aviation (Transportation & Industry) Eng Ty 2.8.22
Aviation Pilot (Rotary Wing) Tques 2.8.23
Avionics 3.15.4
Avionics Maintenance Tn, Aviation 2.8.16
Avionics, Electronics Eng Tn 2.8.99
Back-Hoe Operator 3.5.1
Baker 1.1.5
Baking Techniques 2.5.1
Baking Tques 3.17.2
Band Management 2.2.6
Barber 1.1.6
Barbers, Hairstyling 3.17.14
Bartending 3.17.3
Bartending & Food Service 3.17.11
Basic Design/Design Arts/Fundamentals 2.1.17
Basic Electronics 3.15.16
Basic Employment Training (BET) 3.20.1
Basic Floral Design 3.2.3
Basic Food Preparation 3.17.10
Basic Skill Electronics 3.15.17
Basic Training for Skill Development (BTSD) - Level I 3.1.1
Basic Training for Skill Development (BTSD) - Level II 3.1.2
Basic Training for Skill Development (BTSD) - Level III 3.1.3
Basic Training for Skill Development (BTSD) - Level IV 3.1.4
Behavioural Science/Mental Health Worker 2.4.3
Beverage & Food Service 3.17.8
Beverages/Food Service Mgt/Culinary Mgt/Supervision/Chef (Pre-emp) 2.5.5
Biochemical Tn, Chemical 2.8.35
Biochemical Ty, Chemical 2.8.36
Bioengineering Ty, Chemical 2.8.37
Biological (Chemical) Tn 2.8.24
Biological (Industrial Microbiology) Tn 2.8.25
Biological (Microbiology/Electron Microscopy) Ty 2.8.26
Biological (Research) Ty 2.8.27
Biological (Sciences) Ty 2.8.28
Biomedical, Electronics Eng Tn 2.8.100
Biomedical, Electronics Eng Ty 2.8.101
Blasting & Drilling 3.12.2
Blueprint Reading: Construction/Mechanical 3.13.1
Boilermaker (Construction) 1.1.7
Boilermaker (Shop) 1.1.8
Book & Magazine Publishing 2.3.2
Book Design & Editing 2.3.3
Book Editing & Design 2.3.3
Bookkeeper-Typist (Bookkeeping Clerk) 3.3.3
Bookkeeping & Business Machines/ Business & Commerce 3.3.5
Bookkeeping Clerk, Bookkeeper-Typist 3.3.3
Brakes & Alignment Mechanic 1.1.1
Brick & Stone Mason 1.1.9
Bricklaying 3.5.2
Bricklaying (Preapprenticeship) 3.5.3
Broadcast,General,Print Journalism 2.3.12
(Broadcast Systems) Electronics Eng Ty 2.8.102
Broadcasting, Radio 2.3.4
Broadcasting, Radio & Television 2.3.5
Broadcasting,Television 2.3.6
Building Construction, Civil Tn 2.8.54
Building Maintenance 3.17.4
Building Operation Management Ty 2.8.29
Building Renovation Helper, Residential 3.5.25
Building Systems Technology 2.8.30
Building Tn, Architectural 2.8.4
Bulldozer Loader Operator 3.11.2
Bus Driver, School 3.18.4
Business 2.2
Business & Clerical 3.3
Business & Commerce/Business Machines & Bookkeeping 3.3.5
Business & Industry: Computer Literacy 3.3.9
Business &/or Creative Public Relations 2.3.19
Business - 2.2.7
Business - Accounting 2.2.8
Business - Advertising 2.2.9
Business - Distribution Management 2.2.10
Business - Finance 2.2.11
Business - Human Resources/ Personnel Management 2.2.12
Business - Information Systems 2.2.13
Business - Insurance 2.2.14
Business - Marketing 2.2.15
Business - Materials Management 2.2.16
Business - Office Systems 2.2.17
Business - Purchasing 2.2.18
Business - Retailing/Retail Management/Fashion Retail Administration 2.2.19
Business - Sales 2.2.20
Business - Transportation & Distribution 2.2.21
Business Admin. - International Business/International Trade/Pacific Export 2.2.22
Business Admin. - Marketing/ Marketing Admin./Marketing Management 2.2.23
Business Admin. - Small Business Management/Small Business Admin. 2.2.24
Business Admin/Social Service Worker, Ontario Native Education 2.4.27
Business Administration 2.2.25

Business Administration - Accountant/Programmer Analyst 2.2.26
Business Administration - Accounting 2.2.27
Business Administration - Automotive Marketing 2.2.28
Business Administration - Finance/Financial Services Administration 2.2.29
Business Administration - Human Resources Management 2.2.30
Business Administration - Information Systems 2.2.31
Business Administration - Materials Management 2.2.32
Business Administration - Operations Management 2.2.33
Business Applications: Microcomputer 3.3.18
Business Computer Systems 2.2.34
Business Equipment Servicing 3.15.5
Business Equipment Servicing 3.9.1
Business Fundamentals 3.3.4
Business Machines & Bookkeeping/Business & Commerce 3.3.5
Business Management, Farm 2.2.49
Business Management, Farm 3.7.6
Business Office Procedures & Retail Sales 2.2.35
Business Technology - Information/Communication Systems 2.8.31
Business,Advertising &/or Creative/Management 2.3.1
Butcher & Meat Cutter 3.17.5
Cabinetmaking 1.1.10
Cabinetmaking (Basic Fundamentals) 3.5.4
Camera Operator & Graphic Arts 3.19.1
Care & Education Tques (Post-Basic), Infant/Toddler 2.4.21
Care, Ambulance & Emergency 2.6.1
Care, Animal Health 2.6.2
Career Planning 3.20.2
Career Planning for Native People 3.20.3
Career Planning for Women 3.20.4
Careers, New Technology 3.20.5
Carpenter, Basic 3.5.5
Carpenter, Forming (Preapprenticeship) 1.1.11
Carpenter, General 1.1.12
Carpenter, General 3.5.6
Carpentry & Millwork, Heritage 2.8.153
Carpentry Framing 3.5.7
Carpentry, Construction Tques 2.8.77
Carrier, Air/Airport Management 2.2.3
Cartographic (General) Tn 2.8.32
Cartographic Tn 2.8.33
Cartographic Ty 2.8.34
Cashier/Teller 3.3.28
Ceramics, Commercial 2.1.10
Certificate of Qualification, Preparation for 3.1.9
Change, Focus for 3.20.6
Chef (Pre-emp)/Food Service Mgt/ Culinary Mgt/Supervision/Beverages 2.5.5
Chemical (Biochemical) Tn 2.8.35
Chemical (Biochemical) Ty 2.8.36
Chemical (Bioengineering) Ty 2.8.37
Chemical (Environmental) Eng Ty 2.8.38
Chemical (Food & Drug) Ty 2.8.39
Chemical (Industrial Hygiene) Eng Ty 2.8.40
Chemical (Industrial) Eng Tn 2.8.41
Chemical (Industrial) Eng Ty 2.8.42
Chemical (Laboratory) Tn 2.8.43
Chemical (Materials Science) Eng Ty 2.8.44
Chemical (Microbiology) Ty 2.8.45
Chemical (Pharmaceutical) Ty 2.8.46
Chemical (Polymer) Eng Tn 2.8.47
Chemical (Polymer) Eng Ty 2.8.48
Chemical (Waste Management) Eng Ty 2.8.49
Chemical Eng Tn 2.8.50
Chemical Eng Tn (Industrial) 2.8.41
Chemical Eng Ty 2.8.51
Chemical Tn 2.8.52
Chemical Ty 2.8.53
Chemical Ty (Food & Drug) 2.8.39
Child and Youth Worker 2.4.4
Chiropody 2.6.3
Cinematography/Film Production 2.3.8
Civil (Building Construction) Tn 2.8.54
Civil (Construction) Eng Tn 2.8.55
Civil (Drafting) Eng Tn 2.8.56
Civil (Marine) Eng Ty 2.8.57
Civil (Municipal) Eng Ty 2.8.58
Civil (Public Works) Eng Tn 2.8.59
Civil (Public Works) Eng Ty 2.8.60
Civil (Resources) Eng Ty 2.8.61
Civil (Transportation) Eng Tn 2.8.62
Civil (Transportation) Eng Ty 2.8.63
Civil Eng Tn 2.8.64
Civil Eng Ty 2.8.65
Civil Tn, Building Construction 2.8.54
Clerical,Commercial 3.3.8
Clerk, Accounting - Microcomputer 2.2.1
Clerk, Bookkeeping, Bookkeeper-Typist 3.3.3
Clerk-Typist 3.3.6
Clinical Specialties: Nursing Post-RN 2.6.16
Clinician(Post-Basic)/Orthotic-Prosthetic Tn 2.6.24
Co-operative Education, Community Integration through 2.1.11
Co-ordinator, Activation 2.4.1
Co-ordinator, Residential Construction 3.5.26
Coach, Life Skills 3.20.12
Coaching Tques 2.4.5
College Vocational/Opportunities 2.1.8
Commerce & Business/Business Machines & Bookkeeping 3.3.5
Commercial &/or Creative Arts & Crafts 2.1.16
Commercial (Refresher) 3.3.7
Commercial Art & Design/Packaging Design 2.1.9
Commercial Art/Graphic Computer Typesetting 3.2.1
(Commercial Art)Sign Writing/Screen Printing/Print Making 2.1.36
Commercial Ceramics 2.1.10
Commercial Clerical 3.3.8
Communication Arts/Organizational 2.3.7
Communication et bureautique 2.2.36
Communication/Information Systems - Business Technology 2.8.31
Communications 2.3
Communications, Electronics Eng Tn 2.8.103
Communications,Graphic 2.3.9
Communicative Disorders Assistant (Post-Basic) 2.4.6
Community & Health Services (Multidiscipline,Post-Basic) 2.6.4
Community Care/ Native Child & Family Worker 2.4.24
Community Gerontology 2.4.7
Community Improver: Leather & Beadwork 3.4.1
Community Integration through Co-operative Education 2.1.11
Community Musician 2.1.12
Community Services 2.4
Community Services & Related 3.4
Community Worker/Correctional Worker 2.4.9
Composites, Fibre & Plastics/Eng Ty 2.8.125
Computer (Computing Science) Ty 2.8.66
Computer (Data Processing) Tn 2.8.67
Computer (Micro) Eng Ty 2.8.68
Computer (Micro) Service Tn 2.8.69
Computer (Process Control) Ty 2.8.70
Computer (Science) Ty 2.8.71
Computer (Software) Tn 2.8.72
Computer (Systems) Ty 2.8.73
Computer Animation 2.1.13
Computer Applications for Exceptionalities (Post-Basic) 2.4.8
Computer Data Products - Marketing 2.2.58
Computer Eng Tn 2.8.74
Computer Eng Ty 2.8.75
Computer Graphics 2.1.14
Computer Literacy: Business & Industry 3.3.9
Computer Operator 2.2.37
Computer Operator 3.3.10
Computer Programmer (Numerical Control) 3.13.2
Computer Programmer (Numerical Control) 3.3.11
Computer Programmer Analyst 2.2.38
Computer Programmer/Computer Programming & Operating 2.2.39
Computer Sales & Marketing 2.2.40
Computer Software 3.13.3
Computer Systems Technician 2.8.76
Computer Systems, Business 2.2.34
Computer Systems, Electronics Eng Ty 2.8.104
Computer Typesetting, Graphic/ Commercial Art 3.2.1
Computer, Electronics Eng Tn 2.8.105
Computer, Electronics Eng Ty 2.8.106
Computer, Electronics Tn 2.8.107
Computer-assisted Design Operator 3.3.12
Computer-assisted Design/Manufacturing Tques 3.15.6
Computer-assisted Design/Manufacturing, Mechanical Eng Ty 2.8.178
Computer-assisted Drafting & Design (Introduction) 3.13.10
Computer/Control, Electrical Eng Ty 2.8.88
Computers Advanced Software Applications 2.2.41
Computing Science Ty, Computer 2.8.66
(Construction), Boilermaker 1.1.7
Construction (Carpentry) Tques 2.8.77
Construction (Heavy Equipment) Tn 2.8.78
Construction (Management) Eng Tn 2.8.79
Construction (Management) Eng Ty 2.8.80
Construction (Supervisor) Tn 2.8.81
Construction Co-ordinator, Residential 3.5.26
Construction Eng Tn 2.8.82
Construction Eng Ty 2.8.83
Construction Eng, Civil Tn 2.8.55
Construction Management, Residential 2.8.217
ConstructionSupervision/Co-ordination, Residential 2.8.218
Construction Trades 3.5
Construction Trades Helper 3.5.8
Construction Trades Techniques 3.5.9
Construction, Techniques de 2.8.240
Construction/MechanicalBlueprint Reading 3.13.1
Consumer Electronics, Electronics Eng Tn 2.8.108
Control & Power, Electronics Eng Ty 2.8.110
Control (Systems) Eng Tn 2.8.84
Control (Systems) Eng Ty 2.8.85
Control, Numerical (Manufacturing), Eng Tn 2.8.168
Control, Numerical (Mechanical), Eng Tn 2.8.193
Control, Numerical - Machine-Tool Programmer 3.9.14
Control, Numerical - Machine-Tool Setter Operator 3.9.15
Control,Process & Measurement (Instrumentation), Eng Tn 2.8.163
Controls, Industrial Electronic - Journeyman 3.15.35
Controls/Millwright/Packaging/Assembly/ Repair: Ind. Maint. Mechanic 3.5.14
Convention Management 2.5.2
Conversion Eng Ty/Energy Systems 2.8.118
Cook 1.1.13
Cook 2.5.3
Correctional Worker/Community Worker 2.4.9
Cosmetic Retailing 3.2.2
Counsellor & Management, Human Services 2.4.18
Counsellor, Travel 2.5.13
Counsellor, Travel 3.3.29
Counsellor: Employment 2.4.10
Counsellor:Special Care/Residential/Rehab/Workshop Rehab 2.4.11
Courseware Design & Production 3.15.7
Court Reporting 2.2.42
Crafts & Design/Material Arts/Furniture Accessory 2.1.15
Crafts & Fine Arts/Administration 2.1.20
Craftsperson, Industrial - Machinist 3.9.11
Creative & Visual Art Design 2.1.39
Creative &/or Business Public Relations 2.3.19
Creative &/or Commercial Arts & Crafts 2.1.16
Creative,Advertising &/or Business/Management 2.3.1
Cuisine commerciale 3.17.6
Culinary Mgt/Food Service Mgt/Supervision/Beverages/Chef (Pre-emp) 2.5.5
Customs Brokerage & International Freight Forwarding 2.2.54
Cutter, Meat, Retail 1.2.10
Dairy Herd Worker 3.7.1
Data Entry Operator 3.3.13
Data Processing, Computer Tn 2.8.67
Data Processing, Electronic I, II, III 3.13.9
Data Products, Computer - Marketing 2.2.58
Data,Geoscience/Eng Tn 2.8.147
Day Care Worker/Early Childhood Education 2.4.14
Day Care, Family/Nursery Aide 2.4.25
Day Care, Home 3.4.3
Decompression (Hyperbaric) Chamber Operator 3.5.10
Decorating & Painting 3.5.21
Decorating, Interior Design 2.1.28
Decorator & Painter 1.1.33
Dental Assistant/Hygienist 2.6.5
Dental Office Administration 2.2.43
Dental Ty/Denture Therapy 2.6.6
Denture Therapy/Dental Ty 2.6.6
Design & Commercial Art/Packaging Design 2.1.9
Design & Crafts/Material Arts/Furniture Accessory 2.1.15
Design & Drafting (Mechanical), Eng Ty 2.8.180
Design & Drafting, Computer-assisted (Introduction) 3.13.10
Design & Manufacturing, Computer-assisted/Mechanical Eng Ty 2.8.178
Design & Production, Courseware 3.15.7
Design & Production, Furniture, Tn 2.8.140
Design (Mechanical Drafting), Eng Tn 2.8.197
Design (Mechanical), Eng Tn 2.8.181
Design Arts/Basic Design/ Fundamentals 2.1.17
Design Tn, Architectural 2.8.5
Design Ty, Architectural 2.8.6

Design, Apparel & Pattern Drafting 3.15.2
Design, Art, Visual & Creative 2.1.39
Design, Floral (Basic) 3.2.3
Design, Graphic/Fundamentals 2.1.24
Design, Industrial 2.1.27
Design, Interior/Decorating 2.1.28
Design, Landscape/Grounds Maintenance 2.1.30
Design, Urban 2.1.38
Design, Tool (Mechanical), Eng Ty 2.8.195
Design/Fashion Arts/Modelling/ Merchandising 2.1.19
Desktop Publishing Techniques 2.2.44
Developmental Services Worker 2.4.12
Diamond Drill Operator (Surface & Underground) 3.12.1
Dicta Typist 2.2.45
Dicta-Typist/Secretary - Machine Transcription 3.3.24
Diesel Electric Mechanic 3.15.8
Diesel Engine Mechanic 3.15.9
Diesel, Motive Power Tn 2.8.207
Dietary Services/Home Economics/ Management 2.5.6
Digital Electronics Eng Tn 2.8.86
Digital Equipment & Systems (Electronics) 3.15.18
Dining-Room Service 3.17.7
Direct Marketing 2.2.46
Disabled 3.6
Dispenser, Ophthalmic 2.6.23
Distribution & Transportation - Business 2.2.21
Distribution Management, Business 2.2.10
Drafting 3.13.4
Drafting & Design (Mechanical), Eng Ty 2.8.180
Drafting & Design, Computer-assisted (Introduction) 3.13.10
Drafting (Mechanical), Eng Tn 2.8.182
Drafting (Refresher) 3.13.5
Drafting Tn 2.8.87
Drafting Tn, Architectural 2.8.7
Drafting Ty, Architectural 2.8.8
Drafting, Civil Eng Tn 2.8.56
Drafting, Electromechanical/Eng Tn 2.8.95
Drafting, Mechanical (Design)/ Eng Tn 2.8.197
Drafting, Mechanical /Electrical 3.13.6
Drafting, Mechanical Engineering 3.13.7
Drafting, Pattern & Apparel Design 3.15.2
Drafting, Process Piping 3.13.8
Drill Operator, Diamond (Surface & Underground) 3.12.1
Driller, Water Well 1.2.15
Drilling & Blasting 3.12.2
Drilling Tn, Resources 2.8.219
Driver, School Bus 3.18.4
Driver, Tractor-Trailer 3.18.5
Driver, Truck 3.18.6
Drug & Food Ty 2.8.132
Dry-Wall (Taper & Boarder) 3.5.11
Duties, Marine Emergency 3.18.1
Early Childhood Education (Special Needs) 2.4.13
Early Childhood Education/Day Care Worker 2.4.14
Early Childhood Education/Resource Teacher (Post-Basic) 2.4.15
Economic Development & Small Business, Native 3.10.1
Economic Development, Indian 2.2.51
Economic Development, Indian 2.4.20
Education, Ontario Native (Alcoholism & Drug Abuse Worker) 2.4.26
Education, Ontario Native (Industrial Orientation) 3.20.14
Education, Ontario Native (Job Readiness) 3.20.15
Education, Ontario Native (Social Service Worker/Business Admin) 2.4.27
Educational Assistant 2.7.2
Educational Resources & Special Needs 2.7.3
Electric Mechanic, Diesel 3.15.8
Electrical & Fuel Systems Mecharic 1.1.18
Electrical & Mechanical Drafting 3.13.6
Electrical (Computer/Control) Eng Ty 2.8.88
Electrical (Electrical Power) Eng Ty 2.8.89
Electrical (Power) Eng Ty 2.8.90
Electrical Control Systems, Electrical Eng Ty 2.8.94
Electrical Eng Tn 2.8.91
Electrical Eng Tn, Electrical Controls 2.8.92
Electrical Eng Ty 2.8.93
Electrical Eng Ty, Electrical Control Systems 2.8.94
Electrical Instrumentation Mechanic 3.15.10
Electrical Motor & Apparatus Rewinding & Repair 1.1.14
Electrician 1.1.15
Electrician, Industrial 1.1.22
Electrician, Industrial 1.2.3
Electrician, Industrial 3.15.34
Electromechanical (Drafting) Eng Tn 2.8.95
Electromechanical (Maintenance) Tn 3.15.11
Electromechanical (Precision Instruments) Eng Tn 2.8.96
Electromechanical (Robotics) Eng Tn 2.8.97
Electromechanical (Robotics) Eng Ty 2.8.98
Electronic (Industrial) Controls - Journeyman 3.15.35
Electronic Assembly & Repair 3.15.12
Electronic Assembly, Precision 3.15.52
Electronic Controls, Industrial 1.2.4
Electronic Data Processing I, II, III 3.13.9
Electronic Systems Tester 3.15.13
Electronics (Avionics) Eng Tn 2.8.99
Electronics (Biomedical) Eng Tn 2.8.100
Electronics (Biomedical) Eng Ty 2.8.101
Electronics (Broadcast Systems) Eng Ty 2.8.102
Electronics (Communications) Eng Tn 2.8.103
Electronics (Computer Systems) Eng Ty 2.8.104
Electronics (Computer) Eng Tn 2.8.105
Electronics (Computer) Eng Ty 2.8.106
Electronics (Computer) Tn 2.8.107
Electronics (Consumer Electronics) Eng Tn 2.8.108
Electronics (Electrophotographic Systems) Tn 2.8.109
Electronics (Powrr & Control) Eng Ty 2.8.110
Electronics (Robotics & Process Control) Tn 2.8.111
Electronics (Telecommunications) Eng Tn 2.8.112
Electronics (Telecommunications) Eng Ty 2.8.113
Electronics (Telecommunications), Eng Ty 2.8.113
Electronics (Telephone Systems) Eng Tn 2.8.114
Electronics Eng Tn 2.8.115
Electronics Eng Ty 2.8.116
Electronics Servicing Techniques 3.15.14
Electronics Systems, Audio Equipment 3.17.1
Electronics Tn 2.8.117
Electronics Tn, (Electrophotographic Systems) 2.8.109
Electronics, (Telecommunications) Eng Tn 2.8.112
Electronics, Advanced, Motor Vehicle Mechanic 3.15.46
Electronics, Automated Office Systems Servicing 3.15.15
Electronics, Basic 3.15.16
Electronics, Basic Skill 3.15.17
Electronics, Digital Equipment & Systems 3.15.18
Electronics, Digital/Eng Tn 2.8.86
Electronics, Equipment Assembly 3.15.19
Electronics, General Servicing 3.15.20
Electronics, Industrial Control 3.15.21
Electronics, Industrial for Journeymen 3.5.16
Electronics, Manufacturing Assembly 3.15.22
Electronics, Mobile Radio 3.15.23
Electronics, Radio/Hi-Fi/Television Servicing 3.15.24
Electrophotographic Systems, Electronics Tn 2.8.109
Emergency & Ambulance Care 2.6.1
Emergency Duties & Rescue:Firefighter 2.4.16
Emergency Duties, Marine 3.18.1
Employment Counsellor 2.4.10
Employment Orientation to 3.20.17
Employment Training, Basic (BET) 3.20.1
Energy Management, Mechanical Eng Ty 2.8.183
Energy Management/Environmental Systems/Eng Ty 2.8.123
Energy Systems/Conversion Eng Ty 2.8.118
Eng Technology, Mechanical - Product Design 2.8.198
Eng Tn, Air-conditioning & Refrigeration 2.8.1
Eng Tn, Chemical 2.8.50
Eng Tn, Chemical (Polymer) 2.8.47
Eng Tn, Civil 2.8.64
Eng Tn, Civil (Construction) 2.8.55
Eng Tn, Civil (Drafting) 2.8.56
Eng Tn, Civil (Public Works) 2.8.59
Eng Tn, Civil (Transportation) 2.8.62
Eng Tn, Computer 2.8.74
Eng Tn, Construction 2.8.82
Eng Tn, Construction Management 2.8.79
Eng Tn, Control (Systems) 2.8.84
Eng Tn, Digital Electronics 2.8.86
Eng Tn, Electrical 2.8.91
Eng Tn, Electrical Controls 2.8.92
Eng Tn, Electromechanical (Drafting) 2.8.95
Eng Tn, Electromechanical (Precision Instruments) 2.8.96
Eng Tn, Electromechanical (Robotics) 2.8.97
Eng Tn, Electronics 2.8.115
Eng Tn, Electronics (Avionics) 2.8.99
Eng Tn, Electronics (Biomedical) 2.8.100
Eng Tn, Electronics (Communications) 2.8.103
Eng Tn, Electronics (Computer) 2.8.105
Eng Tn, Electronics (Consumer Electronics) 2.8.108
Eng Tn, Electronics (Telecommunications) 2.8.112
Eng Tn, Electronics (Telephone Systems) 2.8.114
Eng Tn, Fluid Power 2.8.131
Eng Tn, Geological (Geophysics) 2.8.144
Eng Tn, Geoscience (Data) 2.8.147
Eng Tn, Instrumentation 2.8.164
Eng Tn, Instrumentation (Industrial) 2.8.160
Eng Tn, Instrumentation (Process Control) 2.8.162
Eng Tn, Instrumentation (Process,Measurement & Control) 2.8.163
Eng Tn, Manufacturing 2.8.169
Eng Tn, Manufacturing (Numerical Control) 2.8.168
Eng Tn, Mechanical 2.8.199
Eng Tn, Mechanical (Drafting) 2.8.182
Eng Tn, Mechanical (Fluid Power Automation) 2.8.184
Eng Tn, Mechanical (Hydraulic & Pneumatic) 2.8.185
Eng Tn, Mechanical (Industrial) 2.8.186
Eng Tn, Mechanical (Mine Maintenance) 2.8.189
Eng Tn, Mechanical (Numerical Control) 2.8.193
Eng Tn, Mechanical (Tool & Die) 2.8.194
Eng Tn, Mechanical (Toolmaking) 2.8.196
Eng Tn, Mechanical Design 2.8.181
Eng Tn, Mechanical Drafting (Design) 2.8.197
Eng Tn, Metallurgical 2.8.201
Eng Tn, Mining 2.8.204
Eng Tn, Power 2.8.214
Eng Tn, Quality 2.8.215
Eng Tn, Resources 2.8.223
Eng Tn, Stationary (Power/Plant) 2.8.234
Eng Tques, Welding Specialist 2.8.248
Eng Ty, Air-conditioning & Refrigeration 2.8.2
Eng Ty, Aviation (Transportation & Industry) 2.8.22
Eng Ty, Chemical 2.8.51
Eng Ty, Chemical (Environmental) 2.8.38
Eng Ty, Chemical (Industrial Hygiene) 2.8.40
Eng Ty, Chemical (Industrial) 2.8.42
Eng Ty, Chemical (Materials Science) 2.8.44
Eng Ty, Chemical (Polymer) 2.8.48
Eng Ty, Chemical (Waste Management) 2.8.49
Eng Ty, Civil 2.8.65
Eng Ty, Civil (Marine) 2.8.57
Eng Ty, Civil (Municipal) 2.8.58
Eng Ty, Civil (Public Works) 2.8.60
Eng Ty, Civil (Resources) 2.8.61
Eng Ty, Civil (Transportation) 2.8.63
Eng Ty, Computer 2.8.75
Eng Ty, Computer (Micro) 2.8.68
Eng Ty, Construction 2.8.83
Eng Ty, Construction (Management) 2.8.80
Eng Ty, Control (Systems) 2.8.85
Eng Ty, Electrical 2.8.93
Eng Ty, Electrical (Computer/Control) 2.8.88
Eng Ty, Electrical (Electrical Power) 2.8.89
Eng Ty, Electrical (Power) 2.8.90
Eng Ty, Electrical/Electrical Control Systems 2.8.94
Eng Ty, Electromechanical (Robotics) 2.8.98
Eng Ty, Electronics 2.8.116
Eng Ty, Electronics (Biomedical) 2.8.101
Eng Ty, Electronics (Broadcast Systems) 2.8.102
Eng Ty, Electronics (Computer Systems) 2.8.104
Eng Ty, Electronics (Computer) 2.8,106
Eng Ty, Electronics (Power & Control) 2.8.110
Eng Ty, Electronics (Telecommunications) 2.8.113
Eng Ty, Environmental Systems (Energy Management) 2.8.123
Eng Ty, Fibre/Plastics Composites 2.8.125
Eng Ty, Fluid Power (Robotics) 2.8.130
Eng Ty, Geological 2.8.146
Eng Ty, Industrial 2.8.158
Eng Ty, Industrial (Management) 2.8.156

Eng Ty, Instrumentation (Industrial) 2.8.161
Eng Ty, Manufacturing 2.8.170
Eng Ty, Marine 2.8.173
Eng Ty, Mechanical 2.8.200
Eng Ty, Mechanical (Automated Manufacturing) 2.8.176
Eng Ty, Mechanical (Computer-assisted Design) 2.8.178
Eng Ty, Mechanical (Computer-assisted Manufacturing) 2.8.179
Eng Ty, Mechanical (Design & Drafting) 2.8.180
Eng Ty, Mechanical (Energy Management) 2.8.183
Eng Ty, Mechanical (Industrial) 2.8.187
Eng Ty, Mechanical (Mine Maintenance) 2.8.190
Eng Ty, Mechanical (Mobile Equipment) 2.8.191
Eng Ty, Mechanical (Nuclear) 2.8.192
Eng Ty, Mechanical (Tool Design) 2.8.195
Eng Ty, Metallurgical 2.8.202
Eng Ty, Minerals 2.8.203
Eng Ty, Mining 2.8.205
Eng Ty, Quality 2.8.216
Eng Ty, Resources 2.8.224
Eng Ty, Resources (Marine) 2.8.221
Eng Ty, Safety 2.8.225
Eng Ty, Science (Pulp & Paper) 2.8.229
Eng Ty, Stationary (Power) 2.8.233
Eng Ty,Conversion/Energy Systems 2.8.118
Engine Mechanic, Diesel 3.15.9
Engineer, Marine 3.18.2
Engineering - Office Administration 2.2.63
Engineering Ty, Environmental 2.8.119
Engineering, Drafting (Mechanical) 3.13.7
Engineering, Stationary 1.2.11
Engineering, Stationary 3.15.55
Engineering, Stationary (3rd/4th Class) 1.2.13
Engineering, Stationary - 3rd & 4th Class 3.5.28
Engineering, Stationary, (2nd Class) 1.2.12
English as a Second Language 3.1.5
English as a Second Language (Advanced) 3.1.6
English as a Second Language, Teaching 2.7.7
English for Science & High Technology 3.1.7
Entrepreneurship/Small Business Management 2.2.47
Entry into Careers in New Technology 3.20.5
Environmental Eng Ty, Chemical 2.8.38
Environmental Engineering Ty 2.8.119
Environmental Horticulture I & II 3.5.12
Environmental Pest Management 2.8.120
Environmental Science Tn 2.8.121
Environmental Science Ty 2.8.122
Environmental Systems (Energy Management) Eng Ty 2.8.123
Environmental Technology 2.8.124
Environmental Technology, Resources 2.8.220
Equal Opportunity Management 2.2.48
Equine Care/Horsemanship/Harness/ Horse Industry Operation 2.1.26
Equipment & Systems, Digital (Electronics) 3.15.18
Equipment (Heavy), Field Servicing 3.15.33
Equipment Assembly, Electronics 3.15.19
Equipment Mechanic, Farm (Pre-Employment) 3.7.2
Equipment Mechanic, Heavy Duty 3.15.32
Equipment Operator, Heavy (Multiple Machines) 3.11.1
Equipment Servicing, Business 3.15.5
Equipment Servicing, Business 3.9.1
Equipment Tn/Audio-Visual/Instructional Materials 2.7.1
Equipment, Heavy/Construction Tn 2.8.78
Equipment, Small Powered - Motive Power Techniques 3.15.48
Esthetician 2.1.18
Events Management/Sports Facilities/Recreational 2.4.39
Exceptionalities, Computer Applications for (Post-Basic) 2.4.8
Executive Office Administration 2.2.64
Export, Pacific/International Business/ International Trade - Business Admin. 2.2.22
Fabricating & Welding (Metal) 3.9.2
Fabrication Tn, Welding 2.8.245
Fabrication, Precision Metal 1.2.9
Fabrication, Precision Metal 3.15.53
Fabrication, Precision Sheet Metal 1.1.35
Family Care Worker 3.4.2
Family Day Care/Nursery Aide 2.4.25
Family Worker: Human Services (Post-Basic) 2.4.19
Farm Business Management 2.2.49
Farm Business Management 3.7.6
Farm Equipment Mechanic 1.1.16
Farm Equipment Mechanic (Pre-Employment) 3.7.2
Farming, Agriculture, Horticulture, Floriculture, Fishing, Animal Care 3.7
Farrier 3.7.3
Fashion Arts/Modelling/Design/ Merchandising 2.1.19
Fashion Retail Administration/ Retailing/Retail Management - Business 2.2.19
Fibre/Plastics Composites Eng Ty 2.8.125
Field Servicing, Heavy Equipment 3.15.33
Filer, Forestry 3.9.3
Film Production/Cinematography 2.3.8
Finance Administration & Accounting 2.2.2
Finance, Business 2.2.11
Finance/Financial Services Administration - Business Administration 2.2.29
Financial Services Administration/ Finance - Business Administration 2.2.29
Fine Arts & Crafts/Administration 2.1.20
Finishing & Woodworking, Furniture 3.15.30
Fire (Protection) Tn 2.8.126
Fire (Protection) Ty 2.8.127
Fire Protection & Sprinkler Installer 1.1.40
Firefighter:Emergency Duties & Rescue 2.4.16
Fish & Wildlife (Forestry) Ty 2.8.135
Fish & Wildlife Technology 2.8.128
Fish & Wildlife Tn 2.8.129
Fitness & Health Promotion/ Management 2.4.17
Fitter, Steel 3.15.56
Fitter, Structural Steel Plate Work 1.2.1
Fitter, Structural Steel Plate Work (Preapprenticeship) 3.15.25
Fitter, Welding 3.9.18
Fitter, Welding (Refresher) 3.9.19
Fitter/Welder 1.1.17
Flight Instructor Training, Aviation Tques 2.8.17
Flight Management, Aviation Tn 2.8.18
Flight Services 2.5.4
Flight, Aviation Ty 2.8.19
Floor Covering Installer, Plastic 3.5.23
Floor Covering, Plastic, Installer 3.5.23
Floral Design (Basic) 3.2.3
Florist, Retail 2.1.21
Florist, Retail 3.2.4
Fluid Power (Robotics) Eng Ty 2.8.130
Fluid Power Automation (Mechanical), Eng Tn 2.8.184
Fluid Power Control Mechanic 3.15.26
Fluid Power Eng Tn 2.8.131
Focus for Change 3.20.6
Food & Beverage Service 3.17.8
Food (Drug) Ty 2.8.132
Food (Service Management) Tn 2.8.133
Food Industry Tn 2.8.134
Food Preparation, Advanced 3.17.9
Food Preparation, Basic 3.17.10
Food Service & Administration - Hospitality 3.17.15
Food Service & Bartending 3.17.11
Food Service & Modified Accomodations - Hospitality 3.17.16
Food Service Mgt/Supervision/ Culinary Mgt/Beverages/Chef (Pre-emp) 2.5.5
Food, Hospitality & Tourism 2.5
Forest Nursery Worker 3.7.4
Forestry (Fish & Wildlife) Ty 2.8.135
Forestry (Parks & Recreation) Ty 2.8.136
Forestry (Recreation) Tn 2.8.137
Forestry Filer 3.9.3
Forestry Millwright 3.9.4
Forestry Tn 2.8.138
Forestry Ty 2.8.139
Forestry, Sawyer & Millwright 3.14.1
Fork Lift Vehicle Mechanic 3.15.27
Forming, Carpenter (Pre-apprenticeship) 1.1.11
Framing, Carpentry 3.5.7
French as a Second Language 3.1.8
Front Office & Operation, Hotel 3.17.17
Fuel & Electrical Systems Mechanic 1.1.18
Fundamentals of Robot Maintenance & Repair 3.15.28
Fundamentals, Art 2.1.6
Fundamentals, Business 3.3.4
Funeral Services 2.6.7
Furniture (Production & Design) Tn 2.8.140
Furniture (Renovation/Production) Tn 2.8.141
Furniture Accessory/Crafts & Design/ Material Arts 2.1.15
Furniture, Upholstery & Repair 3.15.29
Furniture, Woodworking & Finishing 3.15.30
Gas Fitter/Natural Gas Servicer 3.5.19
General Arts & Science 2.1.22
General Carpenter 1.1.12
General Machinist 1.1.26
General Office Administration 2.2.65
General Servicing, Electronics 3.15.20
General/Automatic Machinist 3.9.10
Geographic Information Systems Technologist 2.8.142
Geographical (Information Systems) Tn 2.8.143
Geological (Geophysics) Eng Tn 2.8.144
Geological (Geotechnics/Minerals/ Terrain) Tn 2.8.145
Geological Eng Ty 2.8.146
Geophysics, Geological Eng Tn 2.8.144
Geoscience (Data) Eng Tn 2.8.147
Geotechnical Ty 2.8.148
Geotechnics/Minerals/Terrain, Geological Tn 2.8.145
Gerontology - Multidiscipline, Postdiploma 2.6.8
Gerontology, Community 2.4.7
Glazier & Metal Mechanic 1.1.19
Golf Course Tn/Outdoor Recreation Tn 2.4.28
Government Administration/Municipal Administration 2.2.62
Grader, Lumber (Hardwood) 3.7.5
Graphic Arts Camera Operator 3.19.1
Graphic Arts Reproduction: Production Co-ordinator 2.1.23
Graphic Communications 2.3.9
Graphic Computer Typesetting/ Commercial Art 3.2.1
Graphic Design/Fundamentals 2.1.24
Graphic Sign Design & Production 2.1.25
Graphics (Printing) Tn 2.8.149
Graphics (Printing) Ty 2.8.150
Graphics, Computer 2.1.14
Grounds Maintenance/Landscape Design 2.1.30
Hairdresser/Hairstylist 1.1.20
Hairdressing 3.17.12
Hairstyling 3.17.13
Hairstyling for Barbers 3.17.14
Hairstylist/Hairdresser 1.1.20
Handicapped Adult, Training for 3.6.2
Hardwood Lumber Grader 3.7.5
Harness/Horse Industry Operation/ Horsemanship/Equine Care 2.1.26
Head Start for the Hearing Impaired 3.6.1
Health & Care, Animal 2.6.2
Health & Community Services (Multidiscipline,Post-Basic) 2.6.4
Health & Fitness Promotion/ Management 2.4.17
Health (Allied) 2.6
Health (Allied) 3.8
Health Care Administration 2.6.9
Health Care Aide 3.8.1
Health Office Administrator 2.2.50
Health Records Tn/Administration 2.6.10
Health Records:Medical Transcriptionist 2.6.13
Health Sciences (Preparatory) 2.6.11
Hearing Impaired, Head Start for 3.6.1
Heating, Air-conditioning & Refrigeration 3.5.13
Heating, Refrigeration & Air-conditioning 2.8.151
Heating/Tn/Services 3.15.31
Heavy Duty Equipment Mechanic 1.1.21
Heavy Duty Equipment Mechanic 3.15.32
Heavy Equipment (Heavy Equipment Specialist) Tn 2.8.152
Heavy Equipment Field Servicing 3.15.33
Heavy Equipment Operator (Multiple Machines) 3.11.1
Heavy Equipment Tn, Construction 2.8.78
Heritage Carpentry & Millwork 2.8.153
Hi-Fi/Radio/Television Servicing, (Electronics) 3.15.24
High-Pressure Pipe Welding (Upgrading/Refresher/Advanced) 3.9.21
Home Day Care 3.4.3
Home Economics/Management/ Dietary Services 2.5.6
Home Support (Visiting Homemaker) 3.4.4
Horse Industry Operation/Horsemanship/Equine Care/Harness 2.1.26
Horsemanship/Equine Care/Harness/Horse Industry Operation 2.1.26
Horticultural Tn 2.8.154
Horticulture, Environmental 3.5.12
Horticulturist 1.2.2
Hospital Orderly 3.8.2
Hospitality & Tourism 2.5.7
Hospitality - Administration & Food Service 3.17.15
Hospitality - Modified Accomodations & Food Service 3.17.16

Hospitality Administration & Services/Travel 2.5.8
Hotel, Front Office & Operation 3.17.17
Hotel/Motel/Restaurant Management,Operation 2.5.9
Human Relations 2.3.10
Human Resources Management - Business Administration 2.2.30
Human Resources/Personnel Management - Business 2.2.12
Human Services Counsellor/Management 2.4.18
Human Services: Family Worker (Post-Basic) 2.4.19
Hydraulic & Pneumatic (Mechanical), Eng Tn 2.8.185
Hydrographic (Survey) Ty 2.8.236
Hygiene (Industrial) Ty 2.8.159
Hygienist/Assistant, Dental 2.6.5
(Hyperbaric) Decompression Chamber Operator 3.5.10
Illustration/Animation 2.1.2
Industrial Maintenance Mechanic: Packaging/Assembly/Repair/ Controls/Millwright 3.5.14
Indian Band Management, Ontario Native Education 3.10.2
Indian Economic Development 2.2.51
Indian Economic Development 2.4.20
Industrial (Laboratory) Ty 2.8.155
Industrial (Management) Eng Ty 2.8.156
Industrial Assembler 3.5.15
Industrial Control, Electronics 3.15.21
Industrial Craftsperson - Machinist 3.9.11
Industrial Design 2.1.27
Industrial Electrician 1.1.22
Industrial Electrician 1.2.3
Industrial Electrician 3.15.34
Industrial Electronic Controls 1.2.4
Industrial Electronic Controls - Journeyman 3.15.35
Industrial Electronics for Journeymen 3.5.16
Industrial Eng Tn, Chemical 2.8.41
Industrial Eng Tn, Instrumentation 2.8.160
Industrial Eng Tn, Mechanical 2.8.186
Industrial Eng Tn/Production/Quality Control 2.8.157
Industrial Eng Ty 2.8.158
Industrial Eng Ty, Chemical 2.8.42
Industrial Eng Ty, Instrumentation 2.8.161
Industrial Eng Ty, Mechanical 2.8.187
Industrial Hygiene Ty 2.8.159
Industrial Hygiene, Chemical Eng Ty 2.8.40
Industrial Instrumentation 3.15.36
Industrial Maintenance Mechanic 3.15.37
Industrial Marketing 2.2.52
Industrial Mechanic/Millwright 3.9.5
Industrial Mechanic/Millwright (Advanced) 3.9.6
Industrial Mechanical Maintenance Tques 3.9.7
Industrial Microbiology (Biological) Tn 2.8.25
Industrial Orientation 3.20.7
Industrial Orientation, Ontario Education Native 3.20.14
Industrial Power Sewing 3.15.38
Industrial Power Sewing Machine Mechanic 3.15.39
Industrial Relations 2.2.53
Industrial Sales/Sales - Technical/Sales Management 2.2.76
Industrial Woodworker 1.1.23
Industrial Woodworker 1.2.5
Industrial Woodworking 3.5.17
Infant/Toddler Care & Education Tques (Post-Basic) 2.4.21
Information & Records Management 2.2.73
Information Systems - Business 2.2.13
Information Systems - Business Administration 2.2.31
Information Systems Technologist, Geographic 2.8.142
Information Systems, (Geographical) Tn 2.8.143
Information/Communication Systems - Business Technology 2.8.31
Installer, Plastic Floor Covering 3.5.23
Installer, Residential Siding 3.5.27
Installer, Sprinkler & Fire Protection 1.1.40
InstructionalMaterials/Audio-Visual/ Equipment Tn 2.7.1
Instructional Resource Services 2.7
Instrumentation (Industrial) Eng Tn 2.8.160
Instrumentation (Industrial) Eng Ty 2.8.161
Instrumentation (Process Control) Eng Tn 2.8.162
Instrumentation (Process, Measurement & Control) Eng Tn 2.8.163
Instrumentation Eng Tn 2.8.164
Instrumentation Mechanic, Electrical 3.15.10
Instrumentation for Plumbers & Steamfitters 3.15.40
Instrumentation, Industrial 3.15.36
Instruments,Precision/Electromechanical Eng Tn 2.8.96
Insurance & Real Estate Management 2.2.72
Insurance - Business 2.2.14
Integrated Office Systems 3.3.14
Interior Design/Decorating 2.1.28
InternationalBusiness/International Trade/Pacific Export - Business Admin. 2.2.22
International Freight Forwarding & Customs Brokerage 2.2.54
InternationalTrade/International Business/Pacific Export - Business Admin. 2.2.22
Interpreter & Communicator, Sign Language 2.4.35
Interpreter,Nature 2.3.14
Introduction to Computer-assisted Drafting & Design 3.13.10
Introduction to Non-Traditional Occupations 3.20.8
Inventory Control 3.16.2
Inventory Control, Auto Parts/ Production Planning 3.3.15
Investment Sales Assistant 2.2.55
Ironworker 1.1.24
Jewellery & Metal Arts/Repairs/ Watchmaking 2.1.29
Job Readiness 3.20.9
Job Readiness, Ontario Native Education 3.20.15
Job-Search Skills for Women 3.20.10
Journalism, Photo 2.3.11
Journalism, Print/Broadcast/General 2.3.12
Journeyman, Industrial Electronic Controls 3.15.35
Journeymen, Industrial Electronics 3.5.16
Laboratory Tn 3.20.11
Laboratory Tn, Chemical 2.8.43
Laboratory Tn, Science 2.8.226
Laboratory Ty, Industrial 2.8.155
Laboratory Ty, Science 2.8.227
Laboratory, Medical Ty 2.6.12
Landscape Design/Grounds Maintenance 2.1.30
Landscape Tn 2.8.165
Landscape Ty 2.8.166
Language Studies, Sign 3.8.3
Lather 1.1.25
Law & Security Administration 2.4.22
Law Enforcement, Natural Resources Ty 2.8.211
Layout & Stripping - Lithography & Screen Printing 3.19.2
Layout Fitting, Welding 3.9.22
Learning Disabilities, Training Programs for Students with 3.8.4
Leather & Beadwork: Community Improver 3.4.1
Legal Administration/Legal Assistant 2.2.56
Legal Assistant/Legal Administration 2.2.56
Legal Office Administration 2.2.66
Legal Secretary 3.3.16
Legal Technician 2.2.57
Library Tn 2.7.4
Life Skills/Coach 3.20.12
Lifestyle & Wellness Management 2.4.40
Literacy, Computer: Business & Industry 3.3.9
Lithography & Screen Printing - Layout & Stripping 3.19.2
Loader, Operator, Bulldozer 3.11.2
Logging & Small Sawmill Operator 3.14.2
Lumber Grader (Hardwood) 3.7.5
Machine Operator 3.9.8
Machine Shop 3.9.9
Machine Shop Operations, Mechanical Tn 2.8.188
Machine Shop, Applied/Mechanical Tques 2.8.175
Machine Transcription, Secretary (Dicta-Typist) 3.3.24
Machine-Tool Programmer - Numerical Control 3.9.14
Machine-Tool Setter Operator - Numerical Control 3.9.15
Machines, Business & Bookkeeping/ Business & Commerce 3.3.5
Machining & Related 3.9
Machining, Numerical Control 3.9.16
Machinist - General/Automatic 3.9.10
Machinist - Industrial Craftsperson 3.9.11
Machinist, Automotive 1.1.3
Machinist, General 1.1.26
Magazine & Book Publishing 2.3.2
Maintenance & Repair, Robot (Fundamentals) 3.15.28
Maintenance Management - Small Communities 2.8.167
Maintenance Mechanic, Industrial 3.15.37
Maintenance Tn 1.2.6
Maintenance Tn, Aircraft 3.15.1
Maintenance Tn, Electromechanical 3.15.11
Maintenance Tques, Industrial Mechanical 3.9.7
Maintenance, Building 3.17.4
Maintenance, Marine & Snow Vehicle 3.15.42
Maintenance, Microcomputer 3.15.47
Maintenance, Tree (Urban) 3.7.7
Maintenance, Tree (Urban) Tn 2.8.244
Maintenance,Mine (Mechanical), Eng Ty 2.8.190
Maintenance,Mine/ Mechanical Eng Tn 2.8.189
Management & Counsellor, Human Services 2.4.18
Management & Marketing/Tourism 2.5.11
Management & Operation, Building Ty 2.8.29
Management & Operation, Hotel/Motel/Restaurant 2.5.9
Management & Operations, Airport/Aviation Ty 2.8.15
Management & Ty, Packaging 2.8.212
Management Operations, Air Carrier/Aviation Ty 2.8.12
Management of Farm Business 3.7.6
Management, Apparel Manufacturing 2.1.3
Management, Construction Eng Tn 2.8.79
Management, Construction Eng Ty 2.8.80
Management, Convention 2.5.2
Management, Energy/Environmental Systems/Eng Ty 2.8.123
Management, Energy/Mechanical Eng Ty 2.8.183
Management, Equal Opportunity 2.2.48
Management, Indian Band/Ontario Native Education 3.10.2
Management, Industrial Eng Ty 2.8.156
Management, Microcomputer 2.2.60
Management, Service/Motive Power Tn 2.8.209
Management, Small Business 3.10.4
Management, Small Business 3.3.26
Management, Small Business/ Entrepreneurship 2.2.47
Management, Telecommunications 2.3.21
Management, Waste/Chemical Eng Ty 2.8.49
Management,Service (Food) Tn 2.8.133
Management/Advertising,Creative&/or Business 2.3.1
Management/Arts Administration 2.1.7
Managerial, Administrative & Related 3.10
Manufacturing & Design, Computer-assisted/Mechanical Eng Ty 2.8.178
Manufacturing (Numerical Control) Eng Tn 2.8.168
Manufacturing Assembly, Electronics 3.15.22
Manufacturing Eng Tn 2.8.169
Manufacturing Eng Ty 2.8.170
ManufacturingTques/Computer-assisted Design 3.15.6
Manufacturing Ty (Aviation) 2.8.21
Manufacturing,Automated/Mechanical Tn 2.8.177
Manufacturing, Aviation Tn 2.8.20
Manufacturing,Mechanical (Computer-assisted), Eng Ty 2.8.179
Manufacturing,Mechanical/Mechanical Eng Ty 2.8.176
Marina & Small Craft Tn 2.8.230
Marina & Small Craft Ty 2.8.231
Marina (Recreation) Ty 2.8.171
Marina Techniques 3.15.41
Marine & Small Engine Mechanic 1.2.7
Marine & Small-powered Equipment Mechanic 3.15.44
Marine & Snow Vehicle Maintenance 3.15.42
Marine (Navigation) Ty 2.8.172
Marine Emergency Duties 3.18.1
Marine Eng Ty 2.8.173
Marine Eng Ty, Resources 2.8.221
Marine Engineer 3.18.2
Marine Management, Recreational 2.2.75
Marine Mechanic 3.15.43
Marine Navigator 3.18.3
Marine Ty, Civil Eng 2.8.57
Marketing & Management/Tourism 2.5.11
Marketing - Business 2.2.15
Marketing - Computer Data Products 2.2.58
MarketingAdmin./Marketing/Marketing Management - Business Admin. 2.2.23
Marketing Management/ Marketing/Marketing Admin. - Business Admin. 2.2.23
Marketing, Automotive - Business Administration 2.2.28
Marketing, Computer & Sales 2.2.40
Marketing, Direct 2.2.46
Marketing, Industrial 2.2.52
Marketing/MarketingAdmin./Marketing Management - Business Admin. 2.2.23
Mason, Brick & Stone 1.1.9
Masonry 3.5.18
Material Arts/Crafts & Design/Furniture Accessory 2.1.15
Material Handling & Related 3.11
Materials Management - Business 2.2.16

Materials Management - Business Administration 2.2.32
Materials Science, Chemical Eng Ty 2.8.44
Materials Testing Technician 2.8.174
Measurement,Process & Control (Instrumentation), Eng Tn 2.8.163
Meat Cutter & Butcher 3.17.5
Meat Cutter, Retail 1.2.10
Meat Cutting, Retail 2.5.10
Meat Cutting, Retail 3.17.18
Mechanic & Millwright, Industrial 3.9.5
Mechanic & Millwright, Industrial (Advanced) 3.9.6
Mechanic, Air-Conditioning & Mechanic 1.1.37
Mechanic, Alignment & Brakes 1.1.1
Mechanic, Diesel Electric 3.15.8
Mechanic, Diesel Engine 3.15.9
Mechanic, Electrical Instrumentation 3.15.10
Mechanic, Farm Equipment 1.1.16
Mechanic, Farm Equipment (Pre-Employment) 3.7.2
Mechanic, Fluid Power Control 3.15.26
Mechanic, Fork Lift Vehicle 3.15.27
Mechanic, Fuel & Electrical Systems 1.1.18
Mechanic, Glazier & Metal 1.1.19
Mechanic, Heavy Duty Equipment 1.1.21
Mechanic, Heavy Duty Equipment 3.15.32
Mechanic, Industrial Maintenance 3.15.37
Mechanic, Industrial Power Sewing Machine 3.15.39
Mechanic, Marine 3.15.43
Mechanic, Marine & Small Engine 1.2.7
Mechanic, Marine & Small-powered Equipment 3.15.44
Mechanic, Motor Vehicle 1.1.29
Mechanic, Motor Vehicle 3.15.45
Mechanic, Motor Vehicle (Advanced Electronics) 3.15.46
Mechanic, Motorcycle 1.1.31
Mechanic, Moulding & Set-up: Plastics 3.15.50
Mechanic, Plastics 1.2.8
Mechanic, Plastics Processing Equipment 3.15.51
Mechanic, Refrigeration & Air-Conditioning 1.1.37
Mechanic, Transmission 1.1.43
Mechanical & Electrical Drafting 3.13.6
Mechanical (Applied Machine Shop) Tques 2.8.175
Mechanical (Automated Manufacturing) Eng Ty 2.8.176
Mechanical (Automated Manufacturing) Tn 2.8.177
Mechanical (Computer-assisted Design) Eng Ty 2.8.178
Mechanical (Computer-assisted Manufacturing) Eng Ty 2.8.179
Mechanical (Design & Drafting) Eng Ty 2.8.180
Mechanical (Design) Eng Tn 2.8.181
Mechanical (Drafting) Eng Tn 2.8.182
Mechanical (Energy Management) Eng Ty 2.8.183
Mechanical (Fluid Power Automation) Eng Tn 2.8.184
Mechanical (Hydraulic & Pneumatic) Eng Tn 2.8.185
Mechanical (Industrial) Eng Tn 2.8.186
Mechanical (Industrial) Eng Ty 2.8.187
Mechanical (Machine Shop Operations) Tn 2.8.188
Mechanical (Mine Maintenance) Eng Tn 2.8.189
Mechanical (Mine Maintenance) Eng Ty 2.8.190
Mechanical (Mobile Equipment) Eng 2.8.191
Mechanical (Nuclear) Eng Ty 2.8.192
Mechanical (Numerical Control) Eng Tn 2.8.193
Mechanical (Tool & Die) Eng Tn 2.8.194
Mechanical (Tool Design) Eng Ty 2.8.195
Mechanical (Toolmaking) Eng Tn 2.8.196
Mechanical Drafting (Design) Eng Tn 2.8.197
Mechanical Eng Technology - Product Design 2.8.198
Mechanical Eng Tn 2.8.199
Mechanical Eng Ty 2.8.200
Mechanical Engineering Drafting 3.13.7
Mechanical Maintenance Tques, Industrial 3.9.7
Mechanical Manufacturing, (Computer-assisted), Eng Ty 2.8.179
Mechanical Systems Tn, Architectural 2.8.9
Mechanical/Construction Blueprint Reading 3.13.1
Media Arts/Media Arts Writing 2.3.13
Medical Laboratory Ty 2.6.12
Medical Office Administration 2.2.67
(Medical) Radiography Ty 2.6.26
Medical Secretary 3.3.17
Medical Transcriptionist 2.2.59
Medical Transcriptionist:Health Records 2.6.13
Mental Health Worker/Behavioural Science 2.4.3
Merchandising & Arts, Photographic 2.3.15
Merchandising Parts, Motive Power Tques 2.8.208
Merchandising Supervisor, Retail 3.16.4
Merchandising, Automotive 3.16.1
Merchandising, Automotive Parts/Parts Management & Automotive Parts 2.2.5
Merchandising, Retail 3.16.3
Merchandising/Fashion Arts/Modelling/Design 2.1.19
Merchandising: Visual Arts 2.1.40
Metal & Glazier Mechanic 1.1.19
Metal Arts & Jewellery/Watchmaking/Repairs 2.1.29
Metal Fabricating & Welding 3.9.2
Metal Fabrication, Precision 1.2.9
Metal Fabrication, Precision 3.15.53
Metallurgical Eng Tn 2.8.201
Metallurgical Eng Ty 2.8.202
Micro Computer Eng Ty 2.8.68
Micro Computer Service Tn 2.8.69
Microbiology Ty, Chemical 2.8.45
Microbiology/Electron Microscopy (Biological) Ty 2.8.26
Microcomputer Accounting Clerk 2.2.1
Microcomputer Maintenance 3.15.47
Microcomputer Management 2.2.60
Microcomputer: Business Applications 3.3.18
Microcomputer: Operator 3.3.19
Millwork & Carpentry, Heritage 2.8.153
Millwright 1.1.27
Millwright & Mechanic, Industrial 3.9.5
Millwright & Mechanic, Industrial (Advanced) 3.9.6
Millwright & Sawyer, Forestry 3.14.1
Millwright (Refresher) 1.1.28
Millwright (Refresher) 3.9.12
Millwright, Forestry 3.9.4
Millwright/Packaging/Assembly/Repair/Controls: Ind. Maint. Mechanic 3.5.14
Mine Maintenance (Mechanical), Eng Ty 2.8.190
Mine Maintenance, Mechanical Eng Tn 2.8.189
Minerals Eng Ty 2.8.203
Minerals/Terrain/Geotechnics, Geological Tn 2.8.145
Mining & Quarrying 3.12
Mining Eng Tn 2.8.204
Mining Eng Ty 2.8.205
Mobile Crane & Tower Operator 3.11.4
Mobile Equipment (Mechanical), Eng Ty 2.8.191
Mobile Radio, Electronics 3.15.23
Modelling/Fashion Arts/Design/Merchandising 2.1.19
Motive Power (Automotive) Tn 2.8.206
Motive Power (Diesel) Tn 2.8.207
Motive Power (Parts Merchandising) Tques 2.8.208
Motive Power (Service Management) Tn 2.8.209
Motive Power Techniques - Small Powered Equipment 3.15.48
Motive Power Tn 2.8.210
Motor Vehicle Mechanic 1.1.29
Motor Vehicle Mechanic 3.15.45
Motor Vehicle Mechanic (Truck/Coach) - Map Forty 1.1.30
Motorcycle Mechanic 1.1.31
Motorcyle Repair 3.15.49
Mould Maker 1.1.32
Mould Making 3.9.13
Moulding & Set-up Mechanic: Plastics 3.15.50
Municipal Administration & Assessment 2.2.61
Municipal Administration/Government Administration 2.2.62
Municipal Eng Ty, Civil 2.8.58
Municipal Planning & Development Tn 2.4.23
Museum Technology 2.1.31
Music 2.1.32
Music Recording /Production 2.1.33
Music Theatre/Theatre Arts/Performing Arts 2.1.37
Musician, Community 2.1.12
Nanny 3.4.5
Native Child & Family Worker/Community Care 2.4.24
Native Economic Development & Small Business 3.10.1
Native Education, Ontario (Alcoholism & Drug Abuse Worker) 2.4.26
Native Education, Ontario (Indian Band Management) 3.10.2
Native Education, Ontario (Industrial Orientation) 3.20.14
Native Education, Ontario (Job Readiness) 3.20.15
Native Education, Ontario (Social Service Worker/Business Admin) 2.4.27
Native People, Career Planning for 3.20.3
Native Teaching for Natives 3.4.6
Natural Gas Servicer/Gas Fitter 3.5.19
Natural Resources (Law Enforcement) Ty 2.8.211
Natural Sciences, Engineering & Mathematics 3.13
Nature Interpreter 2.3.14
Navigation, Marine Ty 2.8.172
Navigator, Marine 3.18.3
Needs,Special & Educational Resources 2.7.3
New Technology, Entry into Careers 3.20.5
Non-Registered Nurse (Upgrading) 2.6.14
Non-Traditional Occupations, Introduction 3.20.8
Nouveau départ 3.20.13
Nuclear Eng Ty, Mechanical 2.8.192
Numerical Control (Manufacturing), Eng Tn 2.8.168
Numerical Control (Mechanical), Eng Tn 2.8.193
Numerical Control - Machine-Tool Programmer 3.9.14
Numerical Control - Machine-Tool Setter Operator 3.9.15
Numerical Control Computer Programmer 3.13.2
Numerical Control Machine Programmer 3.13.11
Numerical Control Machining 3.9.16
Nurse, Non-Registered (Upgrading) 2.6.14
Nursery Aide/Family Day Care 2.4.25
Nursery Worker, Forest 3.7.4
Nursing 2.6.15
Nursing (Post-RN: Clinical Specialties) 2.6.16
Nursing - Refresher (RN) 2.6.17
Nursing Assistant 2.6.18
Nursing Assistant - Post-RNA Courses 2.6.19
Nursing assistant - Refresher (RNA) 2.6.20
Nursing for Registered Nursing Assistants 2.6.21
Occupations, Non-Traditional (Introduction) 3.20.8
Office Administration - Engineering 2.2.63
Office Administration - Executive 2.2.64
Office Administration - General 2.2.65
Office Administration - Legal 2.2.66
Office Administration - Medical 2.2.67
Office Administration - Office Systems 2.2.68
Office Administration - Word Processing 2.2.69
Office Automation - Small Business 2.2.77
Office Information Administration 3.3.20
Office Procedures, Business & Retail Sales 2.2.35
Office Procedures/Retail Sales 3.3.21
Office Skills, Automated 3.3.2
Office Systems - Business 2.2.17
Office Systems - Office Administration 2.2.68
Office Systems Administration 2.2.70
Office Systems Operations 3.3.22
Office Systems, Integrated 3.3.14
Offset Printing 3.19.3
Oil Burner Service 3.5.20
Older Adults, Recreation 2.4.33
Ontario Native Education (Alcoholism & Drug Abuse Worker) 2.4.26
Ontario Native Education (Indian Band Management) I,II,III,IV 3.10.2
Ontario Native Education (Industrial Orientation) 3.20.14
Ontario Native Education (Job Readiness) 3.20.15
Ontario Native Education (Social Service Worker/Business Admin) 2.4.27
Operating & Programming, Computer/Computer Programmer 2.2.39
Operation & Management, Hotel/Motel/Restaurant 2.5.9
Operations & Management, Airport/Aviation Ty 2.8.15
Operations Management - Business Administration 2.2.33
Operations, Machine Shop/Mechanical Tn 2.8.188
Operations, Office Systems 3.3.22
Operator Setter, Machine-Tool /Numerical Control 3.9.15
Operator, Computer-assisted Design 3.3.12
Operator, Data Entry 3.3.13
Operator, Decompression (Hyperbaric) Chamber 3.5.10
Operator, Loader Bulldozer 3.11.2
Operator, Microcomputer 3.3.19
Operator,Photographic Laboratory & Technician 2.3.16
Ophthalmic Assistant 2.6.22
Ophthalmic Dispenser 2.6.23
Orderly, Hospital 3.8.2
Orientation to & Preparation for Trades & Technology 3.20.16
Orientation to Employment 3.20.17
Orientation, Industrial 3.20.7
Orthotic-Prosthetic Tn/Clinician (Post-Basic) 2.6.24
Outdoor Recreation Tn/Golf Course Tn 2.4.28

Pacific Export/International Business/International Trade - Business Admin. 2.2.22
Packaging Design/Commercial Art & Design 2.1.9
Packaging Management & Ty 2.8.212
Packaging/Assembly/Repair/Controls/Millwright: Ind. Maint. Mechanic 3.5.14
Painter & Decorator 1.1.33
Painter, Automotive 1.1.4
Painting 2.1.34
Painting & Decorating 3.5.21
Parks & Recreation (Forestry) Ty 2.8.136
Parks Operation & Services 2.4.29
Parts Management & Merchandising/Automotive Parts & Merchandising 2.2.5
Parts Merchandising, Motive Power Tques 2.8.208
Pattern Drafting & Apparel Design 3.15.2
Performing Arts/Theatre Arts/Music Theatre 2.1.37
Personnel Management/Human Resources - Business 2.2.12
Pest Management, Environmental 2.8.120
Pharmaceutical Ty, Chemical 2.8.46
Pharmacy Assistant 2.6.25
Photo Journalism 2.3.11
Photographic Arts/Merchandising 2.3.15
Photographic Laboratory Operator/Technician 2.3.16
Photographic Tn, Science 2.8.228
Photography 2.3.17
Physically Disabled, Support Worker for the 3.4.8
Piano Tn 2.4.30
Piano Tn 2.8.213
Pipeline Welding 3.5.22
Planning & Development Tn, Municipal 2.4.23
Plastic Floor Covering Installer 3.5.23
Plastic Tooling Tn 2.8.241
Plastics Mechanic 1.2.8
Plastics Processing Equipment Mechanic 3.15.51
Plastics/Fibre Composites Eng Ty 2.8.125
Plastics: Moulding & Set-up Mechanic 3.15.50
Plumber 1.1.34
Plumbers & Steamfitters, Instrumentation for 3.15.40
Pneumatic & Hydraulic (Mechanical), Eng Tn 2.8.185
Polymer Eng Tn, Chemical 2.8.47
Polymer Eng Ty, Chemical 2.8.48
Post-RNA - Nursing Assistant Courses 2.6.19
(Post-RN) Nursing - Clinical Specialties 2.6.16
Pottery 2.1.35
Power & Control, Electronics Eng Ty 2.8.110
Power (Automotive), Motive Tn 2.8.206
Power Control, Fluid, Power 3.15.26
Power Eng Tn 2.8.214
Power Sewing Machine Mechanic (Industrial) 3.15.39
Power Sewing, Industrial 3.15.38
Power Tn, Motive 2.8.210
Power, Diesel/Motive Tn 2.8.207
Power, Fluid (Robotics), Eng Ty 2.8.130
Power, Fluid/Eng Tn 2.8.131
Power,Motive (Service Management) Tn 2.8.209
Power,Motive/Parts Merchandising Tques 2.8.208
Power/Electrical Eng Ty 2.8.90
Power/Plant, Stationary Eng Tn 2.8.234
(Preapprenticeship) Carpenter, Forming 1.1.11
Pre-Trades Training for Women 3.20.18
Precision Electronic Assembly 3.15.52
Precision Instruments, Electromechanical Eng Tn 2.8.96
Precision Metal Fabrication 1.2.9
Precision Metal Fabrication 3.15.53
Precision Sheet Metal Fabrication 1.1.35
Preparation for Certificate of Qualification 3.1.9
Preparation for Trades & Technology 3.20.19
Preparation, Food (Advanced) 3.17.9
Preparation, Food (Basic) 3.17.10
Print Making/Screen Printing/Sign Writing(Commercial Art) 2.1.36
Print,Broadcast,General Journalism 2.3.12
Printing Tn, Graphics 2.8.149
Printing Ty, Graphics 2.8.150
Printing, Offset 3.19.3
Printing, Screen Process 3.19.4
Printing, Screen Process 3.2.5
Procedures, Office/Retail Sales 3.3.21
Process & Robotics Control, Electronics Tn 2.8.111
Process Control (Instrumentation), Eng Tn 2.8.162
Process Control, Computer Ty 2.8.70
Process Operations 3.14.3
Process Piping Drafting 3.13.8
Process,Measurement & Control (Instrumentation), Eng Tn 2.8.163
Processing 3.14
Processing Equipment Mechanic (Plastics) 3.15.51
Product Design - Mechanical Eng Technology 2.8.198
Product Fabricating, Assembling & Repairing 3.15
Production & Design, Courseware 3.15.7
Production & Design, Furniture, Tn 2.8.140
Production & Design, Graphic Sign 2.1.25
Production Co-ordinator: Graphic Arts Reproduction 2.1.23
Production Planning/Inventory Control & Auto Parts 3.3.15
Production,Film/Cinematography 2.3.8
Production/Industrial Eng Tn/Quality Control 2.8.157
Production/Music Recording 2.1.33
Production/Renovation (Furniture) Tn 2.8.141
Programmer Analyst, Computer 2.2.38
Programmer Analyst/Accountant - Business Administration 2.2.26
Programmer, Computer (Numerical Control) 3.13.2
Programmer, Computer (Numerical Control) 3.3.11
Programmer, Computer/Computer Programming & Operating 2.2.39
Programmer, Numerical Control Machine 3.13.11
Programming & Operating, Computer/Computer Programmer 2.2.39
Programs, Training for Students with Learning Disabilities 3.8.4
Property Management/Real Property Administration 2.2.71
Protective Security 2.4.31
Public Relations 2.3.18
Public Relations, Creative &/or Business 2.3.19
Public Works, Civil Eng Tn 2.8.59
Public Works, Civil Eng Ty 2.8.60
Publishing Techniques, Desktop 2.2.44
Publishing, Book & Magazine 2.3.2
Pulp & Paper Eng Ty, Science 2.8.229
Purchasing - Business 2.2.18
Qualification Certificate, Preparation for 3.1.9
Quality Control 3.13.12
Quality Control/Production/Industrial Eng Tn 2.8.157
Quality Eng Tn 2.8.215
Quality Eng Ty 2.8.216
Radio & Television Tn 1.1.36
Radio & Television Writing 2.3.20
Radio & Television, Broadcasting 2.3.5
Radio Broadcasting 2.3.4
Radio, Mobile (Electronics) 3.15.23
Radio/Hi-Fi/Television Servicing, (Electronics) 3.15.24
Radiography (Medical) Ty 2.6.26
Readiness, Job (BJRT) 3.20.9
Real Estate & Insurance Management 2.2.72
Real Property Administration/Property Management 2.2.71
Receptionist-Typist 3.3.23
Recording, Music/Production 2.1.33
Records & Information Management 2.2.73
Records Operations 2.2.74
Records, Health Tn/Administration 2.6.10
Records,Health:Medical Transcriptionist 2.6.13
Recreation & Parks (Forestry) Ty 2.8.136
(Recreation) Forestry Tn 2.8.137
Recreation Older Adults 2.4.33
Recreation Ty, Marina 2.8.171
Recreation for Special Populations (Post-Basic) 2.4.32
Recreational Marine Management 2.2.75
Recreational/Sports Facilities/Events Management 2.4.39
Redirection Through Education 3.4.7
Refresher - Nursing (RN) 2.6.17
Refresher - Nursing assistant (RNA) 2.6.20
Refresher, Commercial 3.3.7
Refresher, Drafting 3.13.5
(Refresher), Millwright 1.1.28
Refresher, Millwright 3.9.12
Refresher, Typing 3.3.30
(Refresher/Upgrading/Advanced) Welding, High-Pressure Pipe 3.9.21
Refresher, Welding Fitter 3.9.19
Refrigeration & Air-Conditioning Mechanic 1.1.37
Refrigeration & Air-conditioning 3.5.24
Refrigeration & Air-conditioning Eng Tn 2.8.1
Refrigeration & Air-conditioning Eng Ty 2.8.2
Refrigeration, Heating & Air-conditioning 2.8.151
Refrigeration, Heating & Air-conditioning 3.5.13
Registered Nursing Assistants, Nursing for 2.6.21
Rehab Workshop, Special Care, Residential, & Rehab Counsellor 2.4.11
Rehab, Special Care, Residential, & Rehab Workshop Counsellor 2.4.11
Renovation Helper, Residential Building 3.5.25
Renovation/Production (Furniture) Tn 2.8.141
Repair & Assembly, Electronic 3.15.12
Repair & Maintenance, Robot (Fundamentals) 3.15.28
Repair & Upholstery, Furniture 3.15.29
Repair, Electrical Motor & Apparatus Rewinding 1.1.14
Repair, Motorcyle 3.15.49
Repair/Controls/Millwright/Packaging/Assembly: Ind. Maint. Mechanic 3.5.14
Repairer, Auto Body 1.1.2
Repairer, Coach & Truck 1.2.14
Repairer, Truck & Coach 1.2.14
Repairer, Truck/Trailer 1.1.44
Repairs/Jewellery & Metal Arts/Watchmaking 2.1.29
Reproduction, Arts Graphic: Production Co-ordinator 2.1.23
Rescue & Emergency Duties:Firefighter 2.4.16
Research Ty, Biological 2.8.27
Researcher, Applied Social 2.4.2
Residential Building Renovation Helper 3.5.25
Residential Construction Co-ordinator 3.5.26
Residential Construction Management 2.8.217
Residential Construction Supervision/Co-ordination 2.8.218
Residential Siding Installer 3.5.27
Residential, Rehab, Special Care, & Rehab Workshop Counsellor 2.4.11
Resource Teacher/Early Childhood Education (Post-Basic) 2.4.15
Resources (Drilling) Tn 2.8.219
Resources (Environmental) Technology 2.8.220
Resources (Marine) Eng Ty 2.8.221
Resources (Terrain/Water) Tn 2.8.222
Resources Eng Tn 2.8.223
Resources Eng Ty 2.8.224
Resources Eng Ty, Civil 2.8.61
Resources,Educational & Special Needs 2.7.3
Respiratory Therapy 2.6.27
Retail Florist 2.1.21
Retail Florist 3.2.4
Retail Management/Retailing/Fashion Retail Administration - Business 2.2.19
Retail Meat Cutter 1.2.10
Retail Meat Cutting 2.5.10
Retail Meat Cutting 3.17.18
Retail Merchandising 3.16.3
Retail Merchandising (Supervisor) 3.16.4
Retail Sales & Business Office Procedures 2.2.35
Retail Sales, Office Procedures 3.3.21
Retailing 3.16.5
Retailing, Cosmetic 3.2.2
Retailing/Retail Management/Fashion Retail Administration - Business 2.2.19
Retour au Travail 3.20.20
(RNA) Nursing assistant - Refresher 2.6.20
(RN) Nursing - Refresher 2.6.17
Robot Maintenance & Repair (Fundamentals) 3.15.28
Robotics & Process Control, Electronics Tn 2.8.111
Robotics, Electromechanical Eng Ty 2.8.98
Robotics, Electromechanical/Eng Tn 2.8.97
Robotics, Fluid Power, Eng Ty 2.8.130
Rotary Wing, Aviation Pilot Tques 2.8.23
Safety Eng Ty 2.8.225
Sales 3.16
Sales - Business 2.2.20
Sales - Industrial/Sales - Technical/Sales Management 2.2.76
Sales Assistant, Investment 2.2.55
Sales Management/Sales - Industrial/Sales - Technical 2.2.76
Sales, Computer & Marketing 2.2.40
Sales, Retail & Business Office Procedures 2.2.35
Sales, Retail/Office Procedures 3.3.21
Saw Filer Fitter 1.1.38
Sawmill Tn 3.15.54
Sawmill, Small & Logging Operator 3.14.2
Sawyer & Millwright, Forestry 3.14.1
School Bus Driver 3.18.4
Science (Environmental) Ty 2.8.122
Science (Environmental), Tn 2.8.121
Science (Laboratory) Tn 2.8.226
Science (Laboratory) Ty 2.8.227
Science (Photographic) Tn 2.8.228
Science (Pulp & Paper) Eng Ty 2.8.229
Science, Behavioural/Mental Health Worker 2.4.3
Science, Computer Ty 2.8.71
Sciences, Biological Ty 2.8.26
Sciences, Health (Preparatory) 2.6.11
Screen Printing & Lithography - Layout & Stripping 3.19.2

Screen Printing/Print Making/Sign Writing(Commercial Art) 2.1.36
Screen Process Printing 3.19.4
Screen Process Printing 3.2.5
Secretary - Machine Transcription (Dicta-Typist) 3.3.24
Secretary - Shorthand (Stenographer, General) 3.3.25
Secretary, Legal 3.3.16
Secretary, Medical 3.3.17
Security & Law Administration 2.4.22
Security Systems Implementation & Design 2.4.34
Security, Protective 2.4.31
Self-Employment Skills 3.10.3
Service 3.17
Service Management, Motive Power Tn 2.8.209
Service Tn, Computer (Micro) 2.8.69
Service, Dining-Room 3.17.7
Service, Food & Bartending 3.17.11
Service, Food & Beverage 3.17.8
Service, Food & Modified Accomodations - Hospitality 3.17.16
Service, Oil Burner 3.5.20
Services, Community & Health (Multidiscipline,Post-Basic) 2.6.4
Servicing (Field), Heavy Equipment 3.15.33
Servicing Techniques, Electronics 3.15.14
Servicing, Appliance 3.15.3
Servicing, Automated Office Systems, Electronics 3.15.15
Servicing, Business Equipment 3.15.5
Servicing, Business Equipment 3.9.1
Servicing, Electronics (General) 3.15.20
Servicing, Radio/Television/Hi-Fi, (Electronics) 3.15.24
Set-up & Moulding Mechanic: Plastics 3.15.50
Setter Operator, Machine-Tool /Numerical Control 3.9.15
Sewing, Industrial Power 3.15.38
Sheet Metal Worker 1.1.39
(Shop), Boilermaker 1.1.8
Shorthand (Stenographer General), Secretary 3.3.25
Sideboom Operator 3.11.3
Siding Installer, Residential 3.5.27
Sign Language Interpreter/ Communicator 2.4.35
Sign Language Studies 3.8.3
Sign Writing 3.2.6
Sign Writing(Commercial Art)/Screen Printing/Print Making 2.1.36
Sign, Graphic - Design & Production 2.1.25
Skills, Automated Office 3.3.2
Small Business & Economic Development, Native 3.10.1
Small Business - Office Automation 2.2.77
Small Business Admin./Small Business Management - Business Admin. 2.2.24
Small Business Management 3.10.4
Small Business Management 3.3.26
Small Business Management/Entrepreneurship 2.2.47
Small Business Management/Small Business Admin. - Business Admin. 2.2.24
Small Communities - Maintenance Management 2.8.167
Small Craft & Marina Tn 2.8.230
Small Craft & Marina Ty 2.8.231
Small Powered Equipment -Motive Power Techniques 3.15.48
Small Sawmill & Logging Operator 3.14.2
Small-powered Equipment & Marine Mechanic 3.15.44
Snow Vehicle & Marine Maintenance 3.15.42
Social Researcher, Applied 2.4.2
Social Service Worker/Business Admin, Ontario Native Education 2.4.27
Social Services Worker 2.4.36
Software Applications, Advanced - Computers 2.2.41
Software, Computer 3.13.3
Software, Computer Tn 2.8.72
Solar Energy Ty 2.8.232
Special Care, Residential, Rehab, & Rehab Workshop Counsellor 2.4.11
Special Needs & Educational Resources 2.7.3
(Special Needs) Early Childhood Education 2.4.13
Special Populations, Recreation for (Post-Basic) 2.4.32
Sports Administration 2.4.37
Sports Equipment Specialist 2.4.38
Sports Facilities/Recreational/Events Management 2.4.39
Sports Injury Management 2.6.28
Sprinkler & Fire Protection Installer 1.1.40
Stationary (Power) Eng Ty 2.8.233
Stationary (Power/Plant) Eng Tn 2.8.234
Stationary Engineering 1.2.11
Stationary Engineering (2nd Class) 1.2.12
Stationary Engineering (3rd/4th Class) 1.2.13
Stationary Engineering - 3rd & 4th Class 3.5.26
Stationary Engineering 3rd & 4th Class 3.15.55
Steam Fitter 1.1.41
Steamfitters & Plumbers, Instrumentation for 3.15.40
Steel Fitter 3.15.56
Stenographer, General/Secretary - Shorthand 3.3.25
Stone & Brick Mason 1.1.9
Structural Steel Plate Work Fitter 1.2.1
Structural Steel Plate Work Fitter (Preapprenticeship) 3.15.25
Students with Learning Disabilities, Training Programs for 3.8.4
Supervision/Food Service Mgt/Culinary Mgt/Beverages/Chef (Pre-emp) 2.5.5
Supervisor, Construction Tn 2.8.81
Supervisor, Retail Merchandising 3.16.4
Support Worker for the Physically Disabled 3.4.8
Survey (Aerial) Tn 2.8.235
Survey (Hydrographic) Ty 2.8.236
Survey Tn 2.8.237
Survey Ty 2.8.238
Systems & Equipment, Digital (Electronics) 3.15.18
Systems Analyst 2.2.78
Systems Analyst (Junior) 3.3.27
Systems Technician, Computer 2.8.76
Systems Tester, Electronic 3.15.13
Systems Ty, Computer 2.8.73
Systems, Audio Equipment (Electronics) 3.17.1
Systems, Computer/Electronics Eng Ty 2.8.104
Systems, Electrical Control/Electrical Eng Ty 2.8.94
Systems, Electrophotographic/ Electronics Tn 2.8.109
Systems, Energy/Conversion Eng Ty 2.8.118
Systems, Environmental (Energy Management) Eng Ty 2.8.123
Systems, Security, Implementation & Design 2.4.34
Systems,Information (Information) Tn 2.8.143
Systems,Telephone/Electronics Eng Tn 2.8.114
Taper & Boarder, Dry-Wall 3.5.11
Taxidermy 2.8.239
Teacher's Aide 2.7.5
Teachers of Adults 2.7.6
Teaching English as a Second Language 2.7.7
Teaching, Native for Natives 3.4.6
Technical Sales/Sales -Industrial/Sales Management 2.2.76
Technical,Writer 2.3.22
Technician, Computer Systems 2.8.76
Technician, Legal 2.2.57
Technician, Materials Testing 2.8.174
Technician,Photographic Laboratory & Operator 2.3.16
Techniques de Construction 2.8.240
Techniques, Construction Trades 3.5.9
Techniques, Desktop Publishing 2.2.44
Techniques, Motive Power - Small Powered Equipment 3.15.48
Technologist, Geographic Information Systems 2.8.142
Technology, Building Systems 2.8.30
Technology, Business - Information/ Communication Systems 2.8.31
Technology, Environmental 2.8.124
Technology, Fish & Wildlife 2.8.128
Technology, Museum 2.1.31
Technology, New, Entry into Careers 3.20.5
Technology, Resources (Environmental) 2.8.220
Technology/Technician Programs 2.8
Telecommunications Management 2.2.79
Telecommunications Management 2.3.21
Telephone Systems, Electronics Eng Tn 2.8.114
Television & Radio Tn 1.1.36
Television & Radio Writing 2.3.20
Television & Radio, Broadcasting 2.3.5
Television Broadcasting 2.3.6
Television/Hi-Fi/Radio Servicing, (Electronics) 3.15.24
Teller/Cashier 3.3.28
Terrain/Geotechnics/Minerals, Geological Tn 2.8.145
Terrain/Water (Resources) Tn 2.8.222
Tester, Electronic Systems 3.15.13
Testing Technician, Materials 2.8.174
Theatre Arts/Performing Arts/Music Theatre 2.1.37
Therapy, Respiratory 2.6.27
Tn, Air-conditioning & Refrigeration Eng 2.8.1
Tn, Aircraft Maintenance 3.15.1
Tn, Aquaculture 2.8.3
Tn, Architectural 2.8.10
Tn, Architectural (Building) 2.8.4
Tn, Architectural (Design) 2.8.5
Tn, Architectural (Drafting) 2.8.7
Tn, Architectural (Mechanical Systems) 2.8.9
Tn, Audio-Visual/Instructional Materials/Equipment 2.7.1
Tn, Aviation (Aircraft Maintenance) 2.8.14
Tn, Aviation (Avionics Maintenance) 2.8.16
Tn, Aviation (Flight Management) 2.8.18
Tn, Aviation (Manufacturing) 2.8.20
Tn, Biological (Chemical) 2.8.24
Tn, Biological (Industrial Microbiology) 2.8.25
Tn, Cartographic 2.8.33
Tn, Cartographic (General) 2.8.32
Tn, Chemical 2.8.52
Tn, Chemical (Biochemical) 2.8.35
Tn, Chemical (Industrial) Eng 2.8.41
Tn, Chemical (Laboratory) 2.8.43
Tn, Chemical (Polymer) Eng 2.8.47
Tn, Chemical Eng 2.8.50
Tn, Civil (Building Construction) 2.8.54
Tn, Civil (Drafting) Eng 2.8.56
Tn, Civil (Public Works) Eng 2.8.59
Tn, Civil (Transportation) Eng 2.8.62
Tn, Civil Eng 2.8.64
Tn, Civil Eng (Construction) 2.8.55
Tn, Computer (Data Processing) 2.8.67
Tn, Computer (Micro) Service 2.8.69
Tn, Computer Eng 2.8.74
Tn, Computer Software 2.8.72
Tn, Construction (Heavy Equipment) 2.8.78
Tn, Construction (Management) Eng 2.8.79
Tn, Construction (Supervisor) 2.8.81
Tn, Construction Eng 2.8.82
Tn, Control (Systems) Eng 2.8.84
Tn, Digital Electronics Eng 2.8.86
Tn, Drafting 2.8.87
Tn, Electrical Eng 2.8.91
Tn, Electrical Eng/Controls 5 2.8.92
Tn, Electromechanical (Drafting) Eng 2.8.95
Tn, Electromechanical (Precision Instruments) Eng 2.8.96
Tn, Electromechanical (Robotics) Eng 2.8.97
Tn, Electromechanical Maintenance 3.15.11
Tn, Electronics 2.8.117
Tn, Electronics (Avionics) Eng 2.8.99
Tn, Electronics (Biomedical) Eng 2.8.100
Tn, Electronics (Communications) Eng 2.8.103
Tn, Electronics (Computer) 2.8.107
Tn, Electronics (Computer) Eng 2.8.105
Tn, Electronics (Electrophotographic Systems) 2.8.109
Tn, Electronics (Robotics & Process Control) 2.8.111
Tn, Electronics (Telecommunications) Eng 2.8.112
Tn, Electronics (Telephone Systems) Eng 2.8.114
Tn, Electronics Eng 2.8.115
Tn, Electronics Eng (Consumer Electronics) 2.8.108
Tn, Environmental Science 2.8.121
Tn, Fire (Protection) 2.8.126
Tn, Fish & Wildlife 2.8.129
Tn, Fluid Power Eng 2.8.131
Tn, Food (Service Management) 2.8.133
Tn, Food Industry 2.8.134
Tn, Forestry 2.8.136
Tn, Forestry (Recreation) 2.8.137
Tn, Furniture (Production & Design) 2.8.140
Tn, Furniture (Renovation/Production) 2.8.141
Tn, Geographical (Information Systems) 2.8.143
Tn, Geological (Geophysics) Eng 2.8.144
Tn, Geological (Geotechnics/ Minerals/Terrain) 2.8.145
Tn, Geoscience (Data) Eng 2.8.147
Tn, Graphics (Printing) 2.8.149
Tn, Heavy Equipment (Heavy Equipment Specialist) 2.8.152
Tn, Industrial Eng/Production/Quality Control 2.8.157
Tn, Instrumentation (Industrial) Eng 2.8.160
Tn, Instrumentation (Process Control) Eng 2.8.162
Tn, Instrumentation (Process,Measurement & Control) Eng 2.8.163
Tn, Instrumentation Eng 2.8.164
Tn, Laboratory 3.20.11
Tn, Library 2.7.4
Tn, Maintenance 1.2.6
Tn, Manufacturing (Numerical Control) Eng 2.8.168
Tn, Manufacturing Eng 2.8.169
Tn, Mechanical (Automated Manufacturing) 2.8.177
Tn, Mechanical (Drafting) Eng 2.8.182
Tn, Mechanical (Fluid Power Automation) Eng 2.8.184
Tn, Mechanical (Hydraulic & Pneumatic) Eng 2.8.185
Tn, Mechanical (Industrial) Eng 2.8.186
Tn, Mechanical (Machine Shop Operations) 2.8.188
Tn, Mechanical (Mine Maintenance) Eng 2.8.189

Tn, Mechanical (Numerical Control) Eng 2.8.193
Tn, Mechanical (Tool & Die) Eng 2.8.194
Tn, Mechanical (Toolmaking) Eng 2.8.196
Tn, Mechanical Design Eng 2.8.181
Tn, Mechanical Drafting (Design) Eng 2.8.197
Tn, Mechanical Eng 2.8.199
Tn, Metallurgical Eng 2.8.201
Tn, Mining Eng 2.8.204
Tn, Motive Power 2.8.210
Tn, Motive Power (Automotive) 2.8.206
Tn, Motive Power (Diesel) 2.8.207
Tn, Motive Power (Service Management) 2.8.209
Tn, Municipal Planning Development 2.4.23
Tn, Orthotic-Prosthetic/Clinician (Post-Basic) 2.6.24
Tn, Outdoor Recreation & Golf Course 2.4.28
Tn, Piano 2.4.30
Tn, Power Eng 2.8.214
Tn, Quality Eng 2.8.215
Tn, Radio & Television 1.1.36
Tn, Resources (Terrain/Water) 2.8.222
Tn, Resources Drilling 2.8.219
Tn, Resources Eng 2.8.223
Tn, Sawmill 3.15.54
Tn, Science (Photographic) 2.8.228
Tn, Science Laboratory 2.8.226
Tn, Small Craft & Marina 2.8.230
Tn, Stationary (Power/Plant) Eng 2.8.234
Tn, Survey (Aerial) 2.8.235
Tn, Television & Radio 1.1.36
Tn, Tooling (Plastic) 2.8.241
Tn, Tree Maintenance (Urban) 2.8.244
Tn, Welding (Fabrication) 2.8.245
Tn, Welding Eng 2.8.246
Tn, Woodworking 2.8.249
Tn,Horticultural 2.8.154
Tn,Landscape 2.8.165
Tn,Piano 2.8.213
Tn,Survey 2.8.237
Tn/Administration, Health Records 2.6.10
Tn/Services, Heating 3.15.31
Toddler/Infant Care & Education Tques (Post-Basic) 2.4.21
Tool & Die (Mechanical), Eng Tn 2.8.194
Tool & Die Maker 1.1.42
Tool & Die Making 3.9.17
Tool Design (Mechanical), Eng Ty 2.8.195
Tooling (Plastic) Tn 2.8.241
Tooling (Toolmaker) Ty 2.8.242
Toolmaker, Tooling Ty 2.8.242
Toolmaking 3.15.57
Toolmaking (Mechanical), Eng Tn 2.8.196
Tourism & Hospitality 2.5.7
Tourism Marketing/Management 2.5.11
Tourism/Travel/Transportation 2.5.12
Tower & Mobile Crane Operator 3.11.4
Tques, Art Conservation 2.1.5
Tques, Aviation (Flight Instructor Training) 2.8.17
Tques, Aviation Pilot (Rotary Wing) 2.8.23
Tques, Baking 3.17.2
Tques, Construction (Carpentry) 2.8.77
Tques, Industrial Mechanical Maintenance 3.9.7
Tques, Mechanical (Applied Machine Shop) 2.8.175
Tques, Motive Power (Parts Merchandising) 2.8.208
Tques, Welding 3.9.20
Tques, Welding Specialist Eng 2.8.248
Tractor-Trailer Driver 3.18.5
Trade, International/International Business/Pacific Export - Business Admin. 2.2.22
Trades & Technology, Orientation to & Preparation for 3.20.16
Trades & Technology, Preparation for 3.20.19
Trades & Technology, Women into 3.20.21
Trailer/Truck Repairer 1.1.44
Training Programs for Students with Learning Disabilities 3.8.4
Training for the Handicapped Adult 3.6.2
Training, Basic Employment (BET) 3.20.1
Transcriptionist, Medical 2.2.59
Transcriptionist, Medical:Health Records 2.6.13
Transmission Mechanic 1.1.43
Transport Equipment Operating 3.18
Transportation & Distribution - Business 2.2.21
Transportation (Planning) Ty 2.8.243
Transportation, Civil Eng Tn 2.8.62
Transportation, Civil Eng Ty 2.8.63
Transportation/Tourism/Travel 2.5.12
Travel Counsellor 2.5.13
Travel Counsellor 3.3.29
Travel/Hospitality Administration & Services 2.5.8
Travel/Transportation/Tourism 2.5.12
Tree Maintenance (Urban) 3.7.7
Tree Maintenance (Urban) Tn 2.8.244
(Truck/Coach) Motor Vehicle Mechanic 1.1.30
Truck & Coach Repairer 1.2.14
Truck Driver 3.18.6
Truck/Trailer Repairer 1.1.44
Ty & Management, Packaging 2.8.212
Ty, Air-conditioning & Refrigeration Eng 2.8.2
Ty, Architectural 2.8.11
Ty, Architectural (Design) 2.8.6
Ty, Architectural (Drafting) 2.8.8
Ty, Aviation (Air Carrier Management Operations) 2.8.12
Ty, Aviation (Air Traffic Services) 2.8.13
Ty, Aviation (Airport Management Operations) 2.8.15
Ty, Aviation (Manufacturing) 2.8.21
Ty, Aviation (Transportation & Industry) Eng 2.8.22
Ty, Aviation(Flight) 2.8.19
Ty, Biological (Microbiology/Electron Microscopy) 2.8.26
Ty, Biological (Sciences) 2.8.28
Ty, Biological Research 2.8.27
Ty, Building Operation Management 2.8.29
Ty, Cartographic 2.8.34
Ty, Chemical (Biochemical) 2.8.36
Ty, Chemical (Bioengineering) 2.8.37
Ty, Chemical (Environmental) Eng 2.8.38
Ty, Chemical (Food & Drug) 2.8.39
Ty, Chemical (Industrial Hygiene) Eng 2.8.40
Ty, Chemical (Industrial) Eng 2.8.42
Ty, Chemical (Materials Science) Eng 2.8.44
Ty, Chemical (Microbiology) 2.8.45
Ty, Chemical (Pharmaceutical) 2.8.46
Ty, Chemical (Polymer) Eng 2.8.48
Ty, Chemical (Waste Management) Eng 2.8.49
Ty, Chemical Eng 2.8.51
Ty, Civil (Marine) Eng 2.8.57
Ty, Civil (Municipal) Eng 2.8.58
Ty, Civil (Public Works) Eng 2.8.60
Ty, Civil (Resources) Eng 2.8.61
Ty, Civil (Transportation) Eng 2.8.63
Ty, Civil Eng 2.8.65
Ty, Computer (Computing Science) 2.8.66
Ty, Computer (Micro) Eng 2.8.68
Ty, Computer (Process Control) 2.8.70
Ty, Computer (Science) 2.8.71
Ty, Computer Eng 2.8.75
Ty, Computer Systems 2.8.73
Ty, Construction (Management) Eng 2.8.80
Ty, Construction Eng 2.8.83
Ty, Control (Systems) Eng 2.8.85
Ty, Conversion Eng/ Energy Systems 2.8.118
Ty, Electrical (Computer/Control) Eng 2.8.88
Ty, Electrical (Electrical Power) Eng 2.8.89
Ty, Electrical (Power) Eng 2.8.90
Ty, Electrical Eng 2.8.93
Ty, Electrical Eng/Electrical Control Systems 2.8.94
Ty, Electromechanical (Robotics) Eng 2.8.98
Ty, Electronics (Biomedical) Eng 2.8.101
Ty, Electronics (Broadcast Systems) Eng 2.8.102
Ty, Electronics (Computer Systems) Eng 2.8.104
Ty, Electronics (Computer) Eng 2.8.106
Ty, Electronics (Power & Control) Eng 2.8.110
Ty, Electronics (Telecommunications) Eng 2.8.113
Ty, Electronics Eng 2.8.116
Ty, Environmental Engineering 2.8.119
Ty, Environmental Science 2.8.122
Ty, Environmental Systems (Energy Management) Eng 2.8.123
Ty, Fibre/Plastics Composites Eng 2.8.125
Ty, Fire (Protection) 2.8.127
Ty, Fluid Power (Robotics) Eng 2.8.130
Ty, Food (Drug) 2.8.132
Ty, Forestry 2.8.139
Ty, Forestry (Fish & Wildlife) 2.8.135
Ty, Forestry (Parks & Recreation) 2.8.136
Ty, Geological Eng 2.8.146
Ty, Graphics (Printing) 2.8.150
Ty, Industrial (Laboratory) 2.8.155
Ty, Industrial (Management) Eng 2.8.156
Ty, Industrial Eng 2.8.158
Ty, Industrial Hygiene 2.8.159
Ty, Instrumentation (Industrial) Eng 2.8.161
Ty, Manufacturing Eng 2.8.170
Ty, Marina (Recreation) 2.8.171
Ty, Marine Eng 2.8.173
Ty, Marine Navigation 2.8.172
Ty, Mechanical (Automated Manufacturing) Eng 2.8.176
Ty, Mechanical (Computer-assisted Design) Eng 2.8.178
Ty, Mechanical (Computer-assisted Manufacturing) Eng 2.8.179
Ty, Mechanical (Design & Drafting) Eng 2.8.180
Ty, Mechanical (Energy Management) Eng 2.8.183
Ty, Mechanical (Industrial) Eng 2.8.187
Ty, Mechanical (Mine Maintenance) Eng 2.8.190
Ty, Mechanical (Mobile Equipment) Eng 2.8.191
Ty, Mechanical (Nuclear) Eng 2.8.192
Ty, Mechanical (Tool Design) Eng 2.8.195
Ty, Mechanical Eng 2.8.200
Ty, Medical Laboratory 2.6.12
Ty, Metallurgical Eng 2.8.202
Ty, Minerals Eng 2.8.203
Ty, Mining Eng 2.8.205
Ty, Natural Resources (Law Enforcement) 2.8.211
Ty, Quality Eng 2.8.216
Ty, Radiography (Medical) 2.6.26
Ty, Resources (Marine) Eng 2.8.221
Ty, Resources Eng 2.8.224
Ty, Safety Eng 2.8.225
Ty, Science (Laboratory) 2.8.227
Ty, Science (Pulp & Paper) Eng 2.8.229
Ty, Small Craft & Marina 2.8.231
Ty, Solar Energy 2.8.232
Ty, Stationary (Power) Eng 2.8.233
Ty, Survey Hydrographic 2.8.236
Ty, Tooling (Toolmaker) 2.8.242
Ty, Transportation (Planning) 2.8.243
Ty, Welding Eng 2.8.247
Ty,Chemical 2.8.53
Ty,Geotechnical 2.8.148
Ty,Landscape 2.8.166
Ty,Survey 2.8.238
Typesetting, Graphic Computer/ Commercial Art 3.2.1
Typing (Refresher) 3.3.30
Typist, Clerk 3.3.6
Typist, Dicta 2.2.45
Typist-Bookkeeper (Bookkeeping Clerk) 3.3.3
Typist-Receptionist 3.3.23
Underwater Skills 3.5.29
(Upgrading) Non-Registered Nurse 2.6.14
(Upgrading/Refresher/Advanced) Welding, High-Pressure Pipe 3.9.21
Upholstery & Repair, Furniture 3.15.29
Urban Arboriculture 3.7.8
Urban Design 2.1.38
Vehicle Mechanic, Fork Lift 3.15.27
Visiting Homemaker, Home Support 3.4.4
Visual & Creative Art Design 2.1.39
Visual Arts: Merchandising 2.1.40
Vocational/Opportunities, College 2.1.8
Waste Management, Chemical Eng Ty 2.8.49
Watchmaking/Jewellery & Metal Arts/Repairs 2.1.29
Water Well Driller 1.2.15
Water/Terrain (Resources) Tn 2.8.222
Welder/Fitter 1.1.17
Welding & Fabricating (Metal) 3.9.2
Welding (Fabrication) Tn 2.8.245
Welding Eng Tn 2.8.246
Welding Eng Ty 2.8.247
Welding Fitter 3.9.18
Welding Fitter (Refresher) 3.9.19
Welding Specialist Eng Tques 2.8.248
Welding Tques 3.9.20
Welding, High-Pressure Pipe (Upgrading/Refresher/Advanced) 3.9.21
Welding, Layout Fitting 3.9.22
Welding, Operator 3.9.23
Welding, Pipeline 3.5.22
Wellness & Lifestyle Management 2.4.40
Wildlife & Fish (Forestry) Ty 2.8.135
Wildlife & Fish Technology 2.8.128
Wildlife & Fish Tn 2.8.129
Women into Trades & Technology 3.20.21
Women, Career Planning for 3.20.4
Women, Job Search Skills for 3.20.10
Women, Pre-Trades Training for 3.20.18
Women, Working Skills for 3.20.23
Woodworker, Industrial 1.1.23
Woodworker, Industrial 1.2.5
Woodworking & Finishing, Furniture 3.15.30
Woodworking Tn 2.8.249
Woodworking, Industrial 3.5.17
Word Processing 2.2.80
Word Processing 3.3.31
Word Processing - Office Administration 2.2.69
Work Skills & Attitude Training 3.20.22
Working Skills for Women 3.20.23
Working with Families (Post-Basic) 2.4.41
Working with the Aged (Post-cert.) 2.6.29
Writer Technical 2.3.22
Writing, Media Arts/Media Arts 2.3.13
Writing, Radio & Television 2.3.20
Youth and Child Worker 2.4.4

Algonquin College of Applied Arts and Technology

Ottawa, Nepean

President: Philip T. Killeen

Enrolment 1989-90

Full-time enrolment	8 669
Part-time registrations	69 550

Algonquin College has campuses or centres in Ottawa, Pembroke, Hawkesbury, Renfrew, and Perth, and operates continuing education courses throughout the Ottawa Valley.

The college offers a wide range of programs in eight schools: applied arts, business, health sciences, technology and trades, Lanark County, Prescott-Russell counties, Renfrew County, and continuing education.

Campus locations:

Woodroffe Campus
1385 Woodroffe Ave.
Nepean, Ontario
K2G 1V8
(613)727-9400

Colonel By Campus
140 Main St.
Ottawa, Ontario
K1S 1C2
(613)598-4577

School of Lanark County
7 Craig St.
Perth, Ontario
K7H 1X7
(613)267-2859

Rideau Campus
200 Lees Ave.
Ottawa, Ontario
K1S 0C5
(613)598-3888

School of Renfrew County
315 Pembroke St. E.
Pembroke, Ontario
K8A 3K2
(613)735-4708

Ottawa Campus (Colonel By, Rideau, Woodroffe)

• Applied Arts

Three-year diplomas
Child and youth worker, interior design (advanced), museum technology.

Additional admission requirements: information session for all; child and youth worker – questionnaire; interior design – graphic ability test, test for colour blindness, portfolio showing creative ability; museum technology – questionnaire.

Two-year diplomas
Advertising (creative), animation (television), broadcasting (radio and television), correctional worker, developmental services worker, early childhood education (also one-year intensive), general arts and science, graphic design, horticulture and landscaping technician, journalism (print), law and security administration, library technician, public relations, recreation facilities management, recreation leadership, social service worker.

Additional admission requirements: information session for all; advertising (creative) – language test, media knowledge test; animation (television) – portfolio, two-page drawing exercise; broadcasting – language proficiency test, Canadian quiz and current events test; correctional worker – questionnaire; developmental services worker, early childhood education, social service worker – questionnaire; graphic design – design test, portfolio; journalism (print) – language test, public affairs test; law and security administration, library technician – questionnaire; public relations – English language test, current affairs test.

One-year (or less) certificates
Horticulture (apprenticeship), protective security, retail florist.

Additional admission requirements: protective security – questionnaire, information session; retail florist – information session.

One-year postdiplomas
Festivals/community events management (pending approval), recreation leadership (older adults).

Additional admission requirements: recreation leadership – two-year recreation diploma or degree in recreology, physical education, kinesiology, or a related discipline, current work with older adults and a desire to specialize.

• Business

Three-year diplomas
Business administration (options in accounting, finance, general, human resources management, information systems (co-op), marketing, materials and inventory management), hospitality and tourism administration (options in hotel and resort management, restaurant management, convention management) (pending approval).

Additional admission requirements: business administration – Grade 12 general level mathematics or equivalent; hospitality and tourism administration – negative reading on a tuberculin skin test within six months before registration.

Two-year diplomas
Business (options in accounting, information systems, marketing, retail management), computer programmer (co-op), culinary arts (pending approval), hotel and restaurant management, legal assistant, office administration (options in executive, legal, medical), records and information management, travel counsellor.

Additional admission requirements: business – Grade 12 general level mathematics for business or equivalent; computer programmer – Grade 12 general level mathematics (mathematics for technology preferred); culinary arts, hotel and restaurant management – negative reading on a tuberculin skin test within six months before registration; office administration (executive, legal) – advanced entry to year 2 with 50 wpm typing, 60 wpm shorthand; office administration (medical) – advanced entry to year 2 with 50 wpm typing.

One-year (or less) certificates
Baker (apprenticeship), baking techniques (40 wks), bartending (15 wks), business accounting (52 wks), computer operator (1 yr), cook (apprenticeship), cook training (1 yr), desktop publishing techniques (15 wks), hairstylist (apprenticeship), hotel front office and reception (12 wks), medical transcriptionist (1 yr), office administration (2nd yr) (executive, legal, medical), records operations (1 yr), retail meat cutter (apprenticeship), retail meat cutting (20 wks), small business management (15 wks), word processing (1 yr), word processing operator 1 (16 wks), word processing (co-op) (1 yr).

Additional admission requirements: baking techniques, bartending, cook (apprenticeship), cook training, retail meat cutting – negative reading on a tuberculin skin test within six months before registration; office administration (executive, legal) – advanced entry to year 2 with 50 wpm typing and 60 wpm shorthand; office administration (medical) – advanced entry to year 2 with 50 wpm typing; word processing operator 1 – 30 wpm in a test administered by the college; word processing (co-op) – 40 wpm in a test and a typing and accuracy test administered by the college.

• Health Sciences

Applicants accepted into the School of Health Sciences must submit proof of a recent medical examination and immunization before entering these programs.

Three-year diplomas
Medical laboratory technology, nursing, nursing for registered nursing assistants, respiratory therapy.

Additional admission requirements: medical laboratory technology, respiratory therapy – Grade 12 advanced level mathematics (minimum 60%), Grade 11 or 12 advanced level chemistry and physics (minimum 60%); nursing – Grade 11 or 12 biology, and chemistry or physics, taken at the advanced level, information session, aptitude test, personal history form (applicants with sciences at the general level considered on an individual basis); nursing for registered nursing assistants – current certificate of competence as a registered nursing assistant in Ontario, a professional work history and nursing assistant program transcript, and all requirements listed above for nursing.

One-year diplomas
Dental hygiene, health records administration.

Additional admission requirements: dental hygiene – registration as a certified dental assistant (Ontario), proof of one year's full-time work experience as a chairside dental assistant, information session, selective admission test, proof of recent tuberculosis screening, X-ray technique training course, qualification in CPR basic rescuer level C and St. John Ambulance first aid, and dental certificate; health records administration – current membership in the Canadian College of Health Record Administrators as a health record technician or proof of successful completion of a health record technician program offered by an Ontario CAAT or equivalent.

One-year certificates
Ambulance and emergency care, dental assistant, health records technician, nursing assistant, pharmacy assistant.

Additional admission requirements: ambulance and emergency care – Grade 11 or 12 general level biology, class "F" driver's licence, current basic cardiac life support certificate (CPR – level C); dental assistant – Grade 11 or 12 general level biology and chemistry, information session, aptitude test, qualification in CPR basic rescuer level C and St. John Ambulance first aid, proof of recent tuberculosis screening, and medical, immunization, and dental certificates; health records technician – Grade 12 general level mathematics (mathematics for technology preferred), Grade 11 or 12 general level biology, chemistry, or physics, information session, aptitude test; nursing assistant – Grade 11 or 12 general level biology, chemistry, or physics (with a minimum of 60%), information session, personal history form; pharmacy assistant – Grade 11 or 12 general level mathematics, chemistry, and one additional science, information session, aptitude test.

• Technology and Trades

Three-year diplomas (technology)
Architectural, chemical (biochemical), chemical (bioengineering), chemical engineering, computer engineering, computer (computing science), construction engineering, electronics engineering, geographic information systems, industrial engineering, manufacturing engineering, mechanical engineering, survey.

Additional admission requirements: Grade 12 general level mathematics for technology or equivalent.

Three-year diploma
Technical writer.

Additional admission requirements: successful completion of at least three levels of a technician or technology program with at least a "B" grade in report writing; direct entries into fourth or fifth level considered for applicants with three or four levels of a technology program and proven communication skills; candidates with a university degree considered on an individual basis.

Two-year diplomas (technician)
Architectural, architectural (mechanical systems), building systems (pending approval), computer systems, construction engineering, electromechanical engineering (drafting), electronics engineering, electronics engineering (digital), fire protection and safety, geographic information systems, graphics (printing), heating refrigeration and air conditioning (pending approval), mechanical engineering (toolmaking), science (photographic), survey.

Additional admission requirements: Grade 12 general level mathematics for technology or equivalent; electromechanical engineering drafting, electronics engineering, fire protection and safety, graphics (printing) – Grade 11 general level mathematics for business or equivalent; science (photographic) – questionnaire; heating refrigeration and air conditioning – reading and mathematics test.

Special one-year (52-week) diplomas
Electromechanical engineering technician (drafting), electromechanical engineering technician (precision instruments), electronics engineering technician.

Additional admission requirements: Grade 12 general level mathematics for technology or equivalent.

One-year (or less) certificates
Business equipment servicing (48 wks), cabinetmaking (basic) (48 wks), electronics manufacturing assembler (48 wks), heating refrigeration and air conditioning (52 wks), machine shop (40 wks), path into technology (16 wks), precision electronics assembler 24 wks), stationary engineering (4th and 3rd class) (40 wks), welding fitter (40 wks), women into trades and technology (18 wks).

Additional admission requirements: business equipment servicing – Grade 11 general level mathematics or equivalent; cabinetmaking – reading, mathematics, and visual perception tests; electronics manufacturing assembler, precision electronics assembler – colour vision acuity test; heating refrigeration and air conditioning – reading and mathematics tests.

Certified trade programs (apprenticeship)
air conditioning and refrigeration, auto body repairer, auto body (MAP 30), automotive service education program (MAP 40), Canadian Tire co-op, carpenter, electrician (construction and maintenance), general machinist, glazier and metal mechanic, industrial woodworker, motor vehicle mechanic, motor vehicle mechanic (MAP 40), plumber, precision metal fabricator (MAP 40), sheet metal worker.

School of Lanark County (Perth, Carleton Place)

Basic training for skill development (levels 2, 3, and 4) (52 wks), carpenter general (40 wks), carpentry and mill work – heritage (2 yrs), commercial refresher (8 to 16 wks), electromechanical engineering technician (robotics) (64 wks), electronics equipment systems tester (46 wks), health care aide (16 wks), home support (level II – 100 hours, level III – 120 hours), microcomputer operator (24 wks), word processing operator (16 wks).

Additional admission requirements: basi employment training – selection interview and placement testing; basic training for s development – placement testing; carpent general – Grade 10 or equivalent, good mathematical and reading skills, interview, and test; carpentry and millwork – heritage Grade 10 mathematics, questionnaire, info mation session; commercial refresher – previous commercial training and/or office experience, Grade 10 or equivalent, good mathematical and English skills; electronic equipment systems tester – Grade 10 or equivalent, testing for mathematics, suitab aptitude capabilities and interests, good colour vision; electromechanical engineering technician (robotics) – Grade 12 gener level mathematics for technology, demonstrated aptitude capabilities and inte ests, colour vision and testing for mathematics; health care aide – Grade 10 or mature applicant (formal testing may be requested by the college), test in basic academic skills, proof of current good hea in the form of a completed standard medic immunization record, information session; home support (level II) – employment by a agency, association, or department providing visiting homemaker services, written proof of at least 120 hours of satisfactory employment as a visiting homemaker withi previous six months, satisfactory health record, ability to read, write, and speak English; home support (level III) – satisfactory completion of level II; microcomputer operator – Grade 10 or equivalent, 30 wp on a keyboarding test; word processing operator – 50 wpm keyboarding in a test administered by the college, adequate communication skills.

School of [illegible] County ([illegible])

Three-year diploma
Nursing.

Additional admission requirements: nursing – Grade 11 or 12 advanced level biology, Grade 11 or 12 advanced level chemistry or physics (applicants with these courses at the general level will be considered on an individual basis), informatio session, personal history form, aptitude tes satisfactory physical examination and immunization.

Two-year diplomas
Business (general), early childhood education, electronics engineering technician, forestry technician, general arts and science, office administration (executive), social service worker.

Additional admission requirements: early childhood education – questionnaire, orientation session; office administration (executive) – advanced entry to year 2 with 50 wpm typing and 60 wpm shorthand; social service worker – questionnaire, information session.

One-year (or less) certificates
Bookkeeper typist, carpentry framing (11 wks), college vocational program, commercial refresher – office technology (20 wks), health care aide (16 wks), home support (level II) (120 hrs), job readiness, microcomputer operator, nursing assistant, office administration (general), women into trades and technology (18 wks).

Additional admission requirements: bookkeeper typist – Grade 10 or equivalent or basic training for skills development (level 3); carpentry framing – Grade 10 or equivalent, basic training for skill development (level 3); commercial refresher – office technology – Grade 10 or equivalent, basic training for skill development (level 3), 35 wpm typing, previous training and/or office experience; job readiness – 17 yrs or older and out of school for at least one year; health care aide – Grade 10 or equivalent or at least 19 years of age, completed standard medical-immunization record showing good health, information session, test in basic academic skills; home support (level II) – written proof of 120 hrs employment by an agency, association, or department as visiting homemaker within previous six months, satisfactory health record, ability to speak, read, and write English; microcomputer operator – Grade 10 or equivalent, 30 wpm typing speed; nursing assistant – Grade 11 or 12 general level biology, chemistry, or physics, information session, personal history form, aptitude test, proof of a satisfactory medical examination and immunization prior to entry into the program, current basic rescuer "C" level certificate required before entry into the second level.

• Alternative Learning

Continuing education
Algonquin offers over 3000 credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section. contact the School of Continuing Education at (613) 727-7666 for more information.

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. for a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section and the college calendar for further details.

Apprenticeships
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Co-operative Education Programs
Co-operative education options offered by the School of Business are as follows: business administration (information systems, materials and inventory management), computer programmer, and word processing (1 yr).

Co-operative education options offered by the School of Technology and Trades are as follows: electronics engineering technician, electronics engineering technician (digital), and electronics engineering technology.

Distance Learning
See the section entitled "Distance Education and Correspondence Study" for details.

Pre-Employment Programs
Contact the college for information.

CEIC (Manpower) programs
Programs lasting one year or less are offered under the sponsorship of CEIC (Manpower) in Carleton Place, Ottawa, Pembroke, Perth, or Renfrew. Inquire at the local Canada Employment Centre for further information.

Additional Costs
The estimated cost of books, supplies, and instruments for the academic year varies from $55 to $1 500, depending on the type of program. Please consult the individual monographs or phone for more information.

Further Information
For further information on admission requirements, college facilities, and student awards, please contact

Admissions (Liaison), Algonquin College
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7606
Toll-free 1-800-267-7061 (Ont., Que., N.B., N.S., P.E.I.)

Registrar, Algonquin College
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7603

Financial Aid Office
Algonquin College
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7678

Cambrian College of Applied Arts and Technology

Sudbury

President: Glenn N. Crombie

Enrolment 1989-90

Full-time enrolment	3 155
Part-time registrations	19 916

Cambrian College has two campuses in Sudbury: the Main Campus on Barrydowne Road offers business, applied arts, and technology programs and labs, a dental clinic, lecture halls, and skills and trades training facilities; the Regent Street Campus, the location of the college residence, offers health science programs (other than dental) and has extensive laboratory facilities. Many other sites in the Sudbury and Manitoulin districts accommodate both full programs and individual courses.

Campus locations:

1400 Barrydowne Rd.
Sudbury, Ontario
P3A 3V8

885 Regent St. S.
Sudbury, Ontario
P3E 4T2

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Child care worker/*techniques d'éducation spécialisée*, music, public relations/*relations publiques*,visual arts.

Additional admission requirements: child care worker – first-aid certificate, questionnaire; music – audition to determine musical aptitude.

Two-year diplomas
Advertising, audio-visual technician, college vocational */programme collégial préparatoire à l'emploi*, correctional worker/*technique de services correctionnels*, developmental services worker/*techniques en services de développement*, early childhood education/*éducation des petits*, general arts and science/*sciences et arts généraux*, journalism, law and security administration/*administration de la loi et de la sécurité*, legal assistant/*techniques juridiques*, Native child and family worker, Native community care counselling and development, social services/*services sociaux*, theatre arts.

Additional admission requirements: correctional worker, early childhood education, developmental services worker, law and security administration, social services – questionnaire, first aid certificate; college vocational/ *programme collégial préparatoire à l'emploi – OSSD at the basic level.*

• Business

Three-year diplomas
Accounting/*comptabilité*, business administration/*administration des affaires* (second-year options in general business

management, marketing management and personnel administration), fashion merchandising, fitness and leisure management, information systems/*informatique*, marketing, office systems administration, public relations/*relations publiques*.

Additional admission requirements: senior math, senior English; fitness and leisure management – senior math, senior English, senior sciences, senior physical eucation, first aid certificate.

Two-year diplomas
Accounting/*comptabilité, études en loisirs, informatique*, marketing, public relations, secretarial/ *secrétariat* (executive/*bilingue de direction*, legal assistant/*techniques juridiques*, medical/*médical*).

One-year certificates
Community musician (post), general secretarial.

Additional admission requirements: community musician – diploma or degree in a related postsecondary field and/or related work experience in the arts field.

• Health Sciences

Three-year diplomas
Medical laboratory technology, nursing/ *sciences infirmières*.

Additional admission requirements: medical laboratory technology – two senior credits in English, one senior credit in mathematics, senior chemistry, and either senior physics or senior biology, and visitation report; nursing/*sciences infirmières* – two senior credits in English, one senior credit in mathematics, one senior credit in chemistry, one senior credit in biology (plus two senior credits in *français, sciences infirmières* only), and basic cardiac life-support certificate.

Two-year diplomas
Dental hygiene /*hygiène dentaire* (two semesters following a two-semester dental assistant/*soins dentaires* certificate program), pharmacy assistant/*aide pharmaceutique*, radiography/*techniques de radiodiagnostic*.

Additional admission requirements: dental hygiene – graduation from a recognized dental assistant program or eligibility for certification as a dental assistant in Ontario, heart-saver certificate, and questionnaire; pharmacy assistant/*aide pharmaceutique* – two senior language credits, one senior chemistry credit, one senior biology or physics credit, two senior mathematics credits, and a typing credit; radiography/ *techniques de radiodiagnostic*– two senior mathematics credits, two senior language credits, one senior physics credit, one senior biology or chemistry credit, two additional science credits at the advanced or general level in any year, questionnaire/ report, and CPR and first aid certificate.

One-year certificates
Ambulance and emergency care/*secours ambulanciers*, dental assistant/*soins dentaires, soins infirmiers auxiliaires*.

Additional admission requirements: ambulance and emergency care/*secours ambulanciers* – two senior science credits (biology and either chemistry or physics preferred), two senior language credits, Ontario driver's licence – Class "F", a valid Red Cross or St. John's Ambulance first aid certificate, a basic cardiac life support certificate and good level of physical fitness; dental assistant/*soins dentaires* – two senior science credits, one of which must be biology and the other preferably chemistry or physics, one typing credit, a heart-saver certificate, questionnaire, and report.

• Technology

Three-year diplomas
Building operations management technology, chemical technology/*technologue en génie chimique* (second-year option in environmental biology and third-year options in material science and waste management), civil engineering technology, electronics engineering/*technologue en génie électronique*, geological engineering (third-year option in geophysics available), metallurgical engineering, mining engineering, stationary (power) engineering.

Additional admission requirements: civil engineering technology, electronics engineering/*technologue en génie électronique*, stationary (power) engineering, building operations management – two senior English credits, two senior mathematics credits, a senior chemistry or physics or biology or technical course; chemical engineering technology/*technologue en génie chimique*, metallurgical engineering – two senior English credits, two senior mathematics credits, and senior chemistry; geological engineering technology, mining engineering – two senior English credits, two senior mathematics credits, senior chemistry or physics; instrumentation (industrial) engineering technology – successful completion of two semesters of the electronics engineering technology program/*technologue en génie électronique*, or electronics engineering technician diploma/*technicien en génie électronique*. Two senior *français* credits are also required for *technologue en génie chimique et génie chimique et génie électronique*.

Two-year diplomas (technician)
Chemistry, civil engineering/*techniques en construction*, electronics engineering/*génie électronique*, geological engineering, industrial instrumentation, metallurgical engineering, mining engineering.

Additional admission requirements: civil engineering technician/*techniques en construction*, electronics engineering/*technicien en génie électronique*, geological engineering, mining engineering – two senior English credits, two senior mathematics, biology, chemistry, physics, or technical course credits; chemical engineering, metallurgic engineering – two senior English credits, two senior mathematics credits, and senio chemistry. Two senior *français* credits ar also required for *technicien en génie électronique*.

• School of Hospitality and Tourism

Two-year diploma
Hotel and restaurant management/*gestio alimentaire et hotelière*.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applie Arts and Technology* section and the college calendar for further details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Cambrian offers a wide range of credit an non-credit courses. See "Continuing Educ tion" in the *General Information on College of Applied Arts and Technology* section an contact the college for an up-to-date list of course offerings.

Additional Costs

Audio-visual – single-lens reflex camera, which costs approximately $400, and abou $300 for supplies.

Child care/*techniques d'éducation spécialisée*, social services/*services sociaux*, developmental services worker/*techniques en services de développement*, early childhood education/*éducation des petits*, legal assistant – approximately $200 for field-placement trip and personal expenses.
Electronics/*électronique* and industrial instrumentation – $100 for lab projects, whic students retain.
Fine arts – approximately $400 per year fo books and art supplies.

Chemistry/*génie chimique* and metallurgy – $25 refundable fee per year for breakage.
Ambulance and emergency care/*soins ambulanciers* – $400 for books, safety shoes, uniforms, gym attire, physical examination, first aid courses, and MTC examination.

Further Information

For further information, please contact
Manager of Admissions
Cambrian College of Applied Arts and
Technology
1400 Barrydowne Rd.
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101 ext. 7503,7544

Canadore College of Applied Arts and Technology

North Bay

President: Garth Jackson

Enrolment 1988-89

Full-time enrolment	2 372
Part-time registrations	7 266

Canadore's main campus, the College Education Centre (which it shares with Nipissing College), the Commerce Court Campus, and the Heliport Campus are the three major facilities in North Bay. The Sturgeon Falls office co-ordinates college programming in West Nipissing, while individual liaison officers respond to the needs of the people of Mattawa and area.

Campus locations:

College Education Centre
100 College Drive
Box 5001
North Bay, Ontario
P1B 8K9

Sturgeon Falls Office
162 King St.
Sturgeon Falls, Ontario
P0H 2G0

Canadore College
Heliport Campus
P.O. Box 5001
North Bay, Ontario
P1B 8K9

Commerce Court Campus
60 Commerce Court
P.O. Box 5001
North Bay, Ontario
P1B 8G4

Programs Offered

Bilingual programs require verbal and written fluency in both English and French.

• Arts and Science – General and Applied

Two-year diplomas

Broadcasting (radio, journalism, or television), college vocational program, early childhood education, general arts and science, graphic communications, journalism (print), law and security administration, recreation leadership, social service worker, social service worker – Native.

Additional admission requirements: two senior English courses preferred.

Short programs (certificate)

Baking techniques (basic and advanced), basic employment training, basic job readiness training, basic training for skill development, career planning for women/*plan de carrière de femme* (bilingual), drywall, English as a second language, food preparation (general) – basic and advanced, heavy equipment operator, retail meat cutting, women into trades and technology.

Note: Many of the short programs are offered on a self-paced, individualized instruction mode.

Additional admission requirements: short programs normally require Grade 10 English (or French) and mathematics, and an interview with the faculty.

• Business

Three-year diplomas

Business administration/*administration des affaires*, accounting, computer programmer analyst, hotel resort and restaurant administration, marketing, small business administration.

Additional admission requirements: senior level English (or French) and Grade 11 mathematics at the advanced or general level preferred.

Two-year diplomas

Accounting, business/*commerce (bilingual)*, business-office systems, culinary management/*gestion culinaire*, food service supervision, hotel resort and restaurant management/*gestion hôtelière*, legal assistant, microcomputer management, office administration, secretarial (executive/*secrétariat de direction*, legal, medical, word processing), small business management.

Additional admission requirements: senior English or French and Grade 11 mathematics at the advanced or general level preferred; hotel, resort, and restaurant management/*gestion hôtelière*, culinary management/*gestion culinaire* – complete immunization and testing required; food service supervision – senior chemistry preferred, proof of a recent tuberculin test required.

One-year certificate

Office administration (general)/*service administration (généraux).*

Short programs (certificates)

Automated office skills/*formation aux travaux de bureau automatise.*

Note: Short programs are offered on a self-paced, individualized instruction mode.

Additional admission requirements: short programs normally require Grade 10 English or French, mathematics, and an interview with the faculty.

• Health Sciences

Three-year diplomas

Biological technologist (environmental), medical technology (laboratory), nursing/*sciences infirmières*, respiratory therapy.

Additional admission requirements: biological, medical – preference will be given to applicants with Grade 11 mathematics, and biology, chemistry, and physics at the advanced or general level; nursing/*sciences infirmières* – Grade 11 biology and one of physics or chemistry at the advanced or general level of the senior division, and completion of prescribed tests.

Two-year diploma

Biological technician/technologist (environmental): see "Three-year diplomas" above.

One-year certificates

Dental assistant/*soins dentaires*, dental hygiene, nursing assistant.

Additional admission requirements: dental assistant/*soins dentaires*, dental hygiene – Grade 11 biology and Grade 12 chemistry or physics at the advanced or general level, and completion of prescribed tests; dental assistant/*soins dentaires* – also requires a written report of a one-day visit to a dental office; dental hygiene – must be a dental assistant eligible for certification or a certified dental assistant with 12 months' full-time work experience; nursing assistant – Grade 11 biology and a science subject at the general or advanced level of the senior division.

Short programs (certificate)

Postdiploma psychiatric nursing for nursing assistants (eight weeks clinical, ten weeks theory).

Additional admission requirements: postdiploma psychiatric nursing for nursing assistants – only a registered nursing assistant or a nursing assistant graduate is eligible for admission. A personal interview is conducted to determine employment suitability in a psychiatric care facility.

Note: All health science programs require compliance with the Ontario Public Hospitals Act, or its equivalent in health standards.

• Technology

Two-year diplomas

Aviation technician (aircraft maintenance), aviation technician (avionics maintenance), civil engineering technician (construction), computer technology – process control, drafting technician, electromechanical engineering technician (robotics), electronics engineering technician, maintenance management – small communities, mechanical-machine shop operations.

Additional admission requirements: aviation technician (aircraft maintenance) – Grade 11 advanced or general mathematics and physics; aviation technician (avionics maintenance), electromechanical engineering technician (robotics), electronics engineering technician – Grade 11 advanced or general level mathematics and physics required, Grade 12 mathematics preferred; civil engineering, drafting technician – Grade 11 physics and Grade 12 mathematics at the advanced or general level preferred.

One-year certificate

Aviation pilot–rotary (helicopter pilot).

Additional admission requirements: Grade 11 physics and Grade 12 mathematics. Applicants must submit, with their application, a summary of Pilot Log Book, evidence of a D.O.T. Flight Medical Certificate Category 1, and a pilot's licence.

Short programs (certificate)

Bricklayer, cabinet maker – carpenter general, cook – small establishment, fluid power and control mechanic, heavy-duty equipment mechanic, machinist, marine and small engines, millwright, motor vehicle mechanic – apprenticeship, Native alcoholism counsellor, office assistant, Ontario basic skills, retail meat cutter, sawfiler, trades updating – automotive, welding fitter.

Note: Many of the short programs are offered on a self-paced, individualized instruction mode.

Additional admission requirements: short programs normally require Grade 10 English (or French) and mathematics, and an interview with the faculty.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for further details.

Continuing education
Many of Canadore's full-time regular programs may also be taken on a part-time basis during the day or in the evening. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section.

Further Information

For further information on admission requirements and details about programs and facilities at Canadore College, and for information and application forms for student awards and loans, please contact

Registrar
Canadore College of Applied Arts
and Technology
100 College Drive
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 123, 131, 132, 501, 509, 543; or, if calling from outside the North Bay local calling area, please call, toll-free, 1-800-461-7340 for all exchanges in Ontario and Northwestern Quebec.

For further information and application forms for student residences, please contact

Residence Manager
College Education Centre Residence
P.O. Box 5005
North Bay, Ontario P1B 8L7
Telephone (705) 474-1550

Centennial College of Applied Arts and Technology

Scarborough, East York

President: I. Bev McCauley

Enrolment 1989-90

Full-time enrolment	5 753
Part-time registrations	47 340

Centennial College has four campuses – Ashtonbee (industrial robotics, aircraft, transportation, and general arts and science programs); Progress (engineering technology, business administration, and office administration programs); Warden Woods (health sciences, communications, hospitality, consumer services, and community services programs); and East York.

The college offers almost 90 programs for full-time students. In addition, a wide range of part-time and evening courses is available through the School of Continuing Education throughout the year. Centennial's Management Training Centre offers many individually designed programs for business and industry, and also co-ordinates and sponsors a variety of public and client seminars.

Campus Locations:

Warden Woods
651 Warden Ave.
(south of St. Clair)
Scarborough, Ontario

Ashtonbee
75 Ashtonbee Rd.
(Warden north of Eglinton)
Scarborough, Ontario

East York
951 Carlaw Ave.
(north of Pape subway)
Toronto, Ontario

Progress
41 Progress Court
(401 and Markham Rd.)
Scarborough, Ontario

CareerInfo is a service available to anyone who needs more information about Centennial College's programs and the careers to which they lead. Call or write the Liaison Office for special career brochures, calendars, posters, and other information. This office also co-ordinates campus tours for individuals and high school groups and provides guest speakers to high school audiences.

Programs Offered

• Arts and Science – General and Applied

Three- and two-year diplomas
General arts and science (options in general studies, public administration, science studies, and visual arts).

Three-year diplomas
Communications (programs in creative advertising, journalism – print, broadcasting: radio and TV), community services (child and youth worker), consumer services (hospitality and tourism administration options in convention management, hotel management, tour operations manageme and restaurant management).

Additional admission requirements: orie tation session; communications – diagnostic/achievement test in English, 500-word essay written at Centennial.

Two-year diplomas
Communications (options in book and magazine publishing, corporate communic tion), community services (programs in correctional worker, early childhood educa tion, developmental services worker, recreation leadership, social service worker), consumer services (programs in fashion merchandising, home furnishings–merchandising, food service supervisor, travel counsellor).

Additional admission requirements: orien tation session; corporate communication – diagnostic/achievement test in English, 50 word essay written at Centennial.

One-year certificate
General arts and science (options in general studies, science studies, and visua arts).

24-week program
English as a second language.

Additional admission requirements: communication skills assessment.

17-week program (one semester)
Cosmetics retailing.

Additional admission requirements: Grad 10 or mature student status, participation i orientation session, ability to identify colou correctly.

16-week program (one semester)
Developmental studies option.

Additional admission requirements: communication skills assessment.

16-week program
English for academic purposes.

Additional admission requirements: communication skills assessment.

16-week program (one semester)
Pre-health science option.

Additional admission requirements: Grad 12 or mature student with one senior science (biology or chemistry preferred), Grade 10 mathematics, communication skills assessment, orientation session.

15-week certificate (one semester)
Wellness and lifestyle management.

Additional admission requirements: degree or diploma in the human services area, program information session, references, résumé.

• Business

Three-year diplomas (co-op)
Business administration (options in accoun ing and financial management, accountant/

programmer analyst, business management, international business, marketing management, production and operating management, computer programmer/analyst), office systems administration, small-business administration.

Two-year diplomas
Business (options in accounting, general studies, information systems, legal assistant, marketing and information systems), office administration (options in executive, legal, medical – all options include word processing).

One-year certificates
Computer programmer, office administration (general), small business management, word processing operator (16 weeks).
Additional admission requirements: computer programming – orientation session, diagnostic/achievement test in mathematics and computer aptitude test; word processing operator – 30 wpm typing and an English assessment.

Short programs
Office information administrator (52 weeks).
Special admission requirements: successful completion of a business mathematics test, reading assessment, 25 wpm typing speed, previous business experience.

• Health Sciences

Three-year diploma
Nursing.
Additional admission requirements: two senior sciences (biology preferred) with satisfactory marks (percentage guidelines are assessed as 60% at the advanced level and 70% at the general level), year 4 mathematics, satisfactory score in an English test, and mathematics, orientation session, letters of reference (upon request) (see college calendar for more details).

One-year certificate
Ambulance and emergency care, nursing assistant.
Additional admission requirements: same as for nursing, and an Ontario driver's licence (Class "F" advised) for ambulance and emergency care.

Note: Before undertaking this program, the applicant should be aware that under the provisions of the Ambulance Act (1975), employment as an ambulance attendant is prohibited to any individual who:
a) in the past year has received six or more demerit points on the driving record by the Registrar of Motor Vehicles; or
b) has had a driving licence suspended in the previous two years; or
c) has been prohibited from driving under the Criminal Code of Canada within the past three years; or
d) has ever been convicted of any crime involving moral turpitude for which he or she has not been pardoned.

Graduates of this program are required by Ministry of Health regulations to qualify as emergency medical care assistants (EMCA).

One-year certificate
Operation room nursing (postdiploma).
Additonal admission requirements: registered nurse holding a current certificate of competence; one year of recent postgraduate nursing experience preferred.

325-hour certificate program
Gerontology.
Additonal admission requirements: degree or diploma in health or social service field, or equivalent; individual assessment and academic counselling.

235-hour certificate program
Working with the aged.
Additonal admission requirements: completion of an approved certificate program in health or social service field, or equivalent; persons without experience or qualifications in these fields may be admitted to the theory courses; individual assessment and academic counselling session.

240-hour certificate program
Sterile supply processing.
Additional admission requirements: OSSD or equivalent, or related work experience.

One-semester certificate program
Activation techniques in gerontology (full or part time).
Additional admission requirements: certificate-level completion in health or social services field and six months' experience in caring for the aged (in a variety of settings).

Community health nursing – home care registered nursing program (full or part time)
Additional admission requirements: registered nurse certificate of competence and experience in nursing; for length of the program, contact the School of Health Sciences.

Orthopaedic nursing program (postdiploma) (full or part time)
Additional admission requirements: registered nurse certificate of competence or R.N. pending; for length of the program, contact the School of Health Sciences.

Infection control program (full or part time)
Additional admission requirements: in development; for entrance requirements, contact the School of Health Sciences.

Home support worker program (full or part time)
Additional admission requirements: in development; for entrance requirements, contact the school of Health Sciences.

Nursing unit clerk program (full or part time)
Additional admission requirements: in development; for entrance requirements, contact the school of Health Sciences.

33-hour course
Pharmacology for emergency personnel.
Additional admission requirements: in development; for entrance requirements, contact the School of Health Sciences.

• Technology

Three-year diplomas (technology)
Architectural (drafting option in third year for students who have successfully completed the two-year architectural technician program), biological (industrial microbiology), chemical engineering (industrial), civil engineering (co-op) (option in public works), computer systems technology, electronics engineering (options in control systems, electronics), fluid power and robotics (hydraulics, robotics, and pneumatics), mechanical engineering (options in industrial and mechanical design).
Additional admission requirements: years 3 and 4 mathematics (business mathematics excluded), year 4 English; fluid power*, mechanical engineering – year 3 physics; biological (microbiology) – year 3 biology, year 4 chemistry; chemical engineering – year 4 chemistry, year 3 physics or biology (physics preferred).

Two-year diplomas (technician)
Architectural (drafting), automotive (technical, administration)*, aviation (aircraft maintenance, avionics), biological (industrial microbiology), chemical engineering (industrial), civil engineering (co-op) (option in public works), electronics engineering, fluid power, industrial instrumentation (process measurement and control), mechanical engineering (options in industrial, mechanical design).
Additional admission requirements: same as for the three-year programs; industrial instrumentation – year 3 and 4 mathematics (business mathematics excluded), year 4 English and chemistry, year 3 physics.

Metal machining program (two-year)
Options in industrial machinist, mould maker, tool and die maker.
Special admission requirements: individual assessment.

40-week program
Automotive parts merchandising.
Additional admission requirements: program information session.

CNC programmer, lab assistant – industrial.
Additional admission requirements: CNC programmer – diploma in metal machining or mechanical engineering technician/technology; experienced machinists with minimum Grade 12 or equivalent will be considered; lab assistant – industrial – years 3 and 4 math, year 4 English; mature students will be considered.

Technician programs (64 weeks)
Electronics engineering technician, mechanical engineering technician, (design option).
Additional admission requirements: year 4 English, years 3 and 4 mathematics (business mathematics excluded), year 3 physics.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Special admission requirement: diagnostic test.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section. Candidates interested in registering in an apprenticeship program *should not apply* to Centennial College but instead should contact their local Apprenticeship Branch. Candidates to other Centennial programs should apply to the college in the normal manner.

Continuing education
Centennial College offers more than 500 credit and non-credit courses. These courses are primarily offered on a part-time studies basis. Students may seek admission to courses that start in September, January, and May of each year. The School of Continuing Education also provides special educational services to professional and other interest groups. For brochures and specific information, call 694-3241, extension 3410.

Pre-employment programs
Heavy-duty equipment mechanic, marine and small-powered equipment mechanic.

Special admission requirement: Grade 10.

Further Information

For further information regarding college programs, services, facilities, and campus visits, please contact

Liaison Office
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 3312,3319
Toll-free 1-800-268-4419

Applications to Centennial should be directed to

Office of the Registrar
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 698-8200
Toll-free 1-800-268-4419

For further information regarding financial assistance and related OSAP forms, please contact

Director, Financial Aid
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 439-7180 ext. 2255

La Cité collégiale

Ottawa

President: Andrée Lortie

Enrolment 1990-91

Full-time enrolment	2 000 (estimated)

La Cité collégiale is Ontario's first French-language college of applied arts and technology (CAAT). It is also the newest CAAT.

The college has a mandate to provide postsecondary and adult education in French to residents of the counties of Renfrew, Lanark, Russell, Prescott, Frontenac, Leeds, Grenville, Dundas, Stormont and Glengarry, and the Regional Municipality of Ottawa-Carleton. It offers 70 diploma and certificate programs at campuses in Ottawa, Cornwall, and Hawkesbury. A calendar with program information is available from La Cité collégiale.

Further Information

La Cité collégiale
2445 Saint-Laurent Boulevard
Ottawa, Ontario
Telephone (713) 744-5050
Toll-free for area codes 416, 514, 613, 705, and 819: 1-800-267-CITÉ (2483)
Ottawa: 746-CITÉ (2483)
Cornwall: 938: CITÉ (2483).

See the French-language publication *Tour d'horizon* for further information on La cité collégiale.

Conestoga College of Applied Arts and Technology

Kitchener

President: John W. Tibbits

Enrolment 1989-90

Full-time enrolment	3 524
Part-time registrations	37 896

Conestoga College provides educational programs leading to careers in business, industry, and health and community services.

College campuses are located in Cambridge, Clinton, Doon (Kitchener), Guelph, Stratford, and Waterloo. The Employer Centred Training Department is located in Cambridge. Diploma programs are offered at Doon, Guelph, Stratford, and Waterloo. Certificate programs and part-time studies are offered at all campuses except Clinton, which offers only part-time courses.

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Broadcasting (radio and television), graphic design and advertising, journalism (print) (80 weeks).

Additional admission requirements: broadcasting (radio and television) – Grades 11 and 12 English, Grade 11 or 12 social studies, aptitude test, interview, portfolio; graphic design and advertising – Grade 12 English, interview, portfolio of art and/or design-related work; journalism (print) – Grade 12 English, interview, portfolio, questionnaire.

Two-year diplomas
Early childhood education, general arts and science, law and security administration, recreation leadership, social services.

Additional admission requirements: early childhood education – Grade 12 English, questionnaire, interview, aptitude test, satisfactory medical record; general arts and science – Grade 12 English and mathematics, interview, questionnaire; law and security administration, recreation leadership – Grade 12 English, questionnaire, interview, aptitude test (law and security only); social services – Grade 12 English, applicant should be at least 19 years of age by August 31 of current academic year, questionnaire, interview, aptitude test.

• Business

Three-year diplomas
Business administration (accounting, management studies, marketing, materials management), computer programmer/analyst.

Additional admission requirements: Grade 12 English, Grade 12 mathematics for technology or for business and consumers, interview (management studies only).

Two-year diplomas
Food and beverage management (co-op), general business, office administration (executive), office systems administration.

Additional admission requirements: food and beverage management – Grade 12 English, questionnaire, interview, satisfactory medical record; general business – Grade 12 English, Grade 12 mathematics for technology or for business and consumers; office administration (executive) – Grade 12 English, interview; office systems administration – Grade 12 English.

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: Grade 11 or 12 biology, Grade 11 or 12 physics or chemistry, Grade 12 English and mathematics, questionnaire, information session, aptitude test, CPR course, first aid course. Applicants must meet the medical criteria.

One-year certificate
Ambulance and emergency care.

Additional admission requirements: Ontario driver's or class "F" licence, questionnaire, interview, Grade 12 English, Grade 11 or 12 biology, CPR course, first aid course. Applicants must meet the medical criteria.

• Engineering Technology

Three-year diplomas (technology)
Civil engineering, construction engineering, electronics engineering (options in computer systems, telecommunications systems, and broadcast systems (co-op)), mechanical engineering (options in automated manufacturing, computer-aided design and analysis, and robotics and automation (co-op)).

Additional admission requirements: Grade 12 mathematics.

Two-year diplomas (technician)
Electrical engineering, electronics engineering, mechanical engineering (options in design drafting, numerical control), welding engineering, woodworking (co-op: limited capacity).

Additional admission requirements: electrical, electronic, mechanical, and welding engineering – Grade 12 mathematics; woodworking – questionnaire, interview, Grade 11 mathematics.

• Trades and Apprenticeship

One-year diplomas (52 weeks)
Residential construction supervision.

Additional admission requirements: residential construction supervision – Grade 12 mathematics and English, interview.

Certificate programs
Conestoga College offers a number of certificate programs that vary in length from four to 52 weeks. Consult the current college calendar or contact Liaison Services for details.

Part-time certificate programs
Automated control systems, community integration and developmental services*, early childhood education resource teacher*, gerontology – multidiscipline*, health care aide, home day-care provider, industrial engineering – entry level, industrial maintenance mechanic, machine tool setter operator, numerical control machining – machining centres **, numerical control machining – turning centres**, nursing assistant, quality assurance, registered nurse – critical care nursing*, registered nurse – psychiatric nursing*, registered nurse – refresher, registered nursing assistant – psychiatric nursing, volunteer management, working with the aged – multidiscipline**.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Centre for Continuous Learning
A wide selection of credit and non-credit courses is offered through the Centre for Continuous Learning. Professional training courses as well as courses of special interest are available. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section.

Ontario basic skills
Conestoga offers this program both full-time and part-time to provide general preparatory training to assist participants plan job or career opportunities. For details, contact Liaison Services.

Business and industrial training
Employer-centred training, which is part of the Centre for Continuous Learning, provides courses for use by local businesses and industries. These courses are offered either on-site or in-college and are made possible through federal and provincial programs such as Ontario Skills Development. Employer-centred training also provides linkages with local industrial training committees. For more information contact

Employer Centred Training
400 Collier Macmillan Drive
Cambridge, Ontario N1R 7H7
(519) 653-8097
Ontario Skills Development Office
(519) 740-3320
Toll-free in area code 519: 1-800-265-6642

Sponsored programs
Contact the college for information.

Further Information

For additional information, please contact

Liaison Services
Conestoga College of Applied Arts and Technology
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 748-3516

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* postdiploma program
** postcertificate program

Confederation College of Applied Arts and Technology

Thunder Bay

President: Roy V. Murray

Enrolment 1989-90

Full-time enrolment	2 667
Part-time registrations	18 929

Confederation College offers over 50 postsecondary programs for full-time students. January or February intake is available in business-general, general arts and science, and law and security administration (Native supplement). Also offered at Confederation are various upgrading, postdiploma, continuing education, adult training, apprenticeship, and distance education programs.

The main campus is situated in Thunder Bay. Off-campus locations in Thunder Bay house the aviation programs. Many postsecondary, adult training, and continuing education programs are offered at other campus locations, including Dryden, Kenora, Fort Frances, Geraldton, Marathon, and other areas.

Programs Offered

• Arts and Science – General and Applied

Three-year diploma
Child care worker.

Two-year diplomas
Arts management, band management (Native), broadcasting (radio and TV), community gerontology, developmental services worker, early childhood education, film production, general arts and science (core), law and security administration, Native child and family worker, Native menatal health worker, photography, recreation leadership, security systems implementation and design, social service worker, teacher aide.

Additional admission requirements: program orientation interview; arts management – related experience preferred; developmental services worker – interview; early childhood education – health questionnaire, verification of current immunization; law and security administration – student medical form.

One-year certificates
College vocational program, computer applications for exceptionalities (postdiploma), general vocational preparation, wellness promotion – multidisciplinary (postdiploma).

• Business

Three-year diplomas
Accounting and finance administration, computer programmer analyst (co-op), industrial relations, marketing (co-op).

Additional admission requirements: satisfactory standing in first-semester core subjects; computer programmer analyst – years 3 and 4 general or advanced level mathematics.

Two-year diplomas
Accounting, administration, culinary management, employment equity, general business (core), hotel management, marketing, personnel management, travel/tourism administration.

One-year certificates
Health records technician, hospitality and tourism (co-op), office administration (executive, general, legal, and medical options).

Additional admission requirements: office administration (executive, legal) – 40 wpm keyboarding and 80 wpm shorthand for shorthand option; (medical) – 40 wpm keyboarding.

• Health Sciences

Two-and-one-half-year diploma
Nursing.

Additional admission requirements: year 3 or 4 chemistry and biology, year 2 mathematics, entrance tests, student medical form.

Two-year diploma
Radiography.

Additional admission requirements: years 3 and 4 advanced mathematics, years 3 and 4 advanced English, year 3 or 4 advanced physics, year 3 or 4 advanced biology or chemistry, two additional sciences, health questionnaire, admission interview, entrance test, observational visit to a radiography department, student medical form.

One-year diploma
Dental hygiene.

Additional admission requirements: certificate in dental assisting from a community college program or proof of certification as a dental assistant from the Ontario Dental Nurses and Assistants Association, minimum "B" average (3.00 GPA) in the dental assistant program, minimum of one year as a practising certified dental assistant, meet Healing Arts Radiation Protection Act requirements, admission test, manual dexterity, admission interview.

One-year certificate
Dental assistant.

Additional admission requirements: year 3 or 4 chemistry, year 3 or 4 biology, introductory keyboarding, years 3 and 4 English, student medical form, visit to dental office, report/questionnaire.

• Technology

Three-year diplomas
Architectural technology-design, aviation (manufacturing) engineering technology, civil engineering technology (co-op), electrical engineering (computer control) technology, interior design.

Additional admission requirements: architectural technology-design – years 3 and 4 mathematics; aviation (manufacturing) engineering technology – years 3 and 4 mathematics (physics and chemistry beneficial but not mandatory); civil engineering technology (co-op) – years 3 and 4 mathematics (physics and chemistry beneficial but not mandatory); electrical engineering (computer control) – years 3 and 4 mathematics (physics and chemistry beneficial but not required); interior design – program orientation interview.

Two-year diplomas
Air carrier/airport management, aviation (aircraft maintenance) technician – aviation flight management, aviation (manufacturing) engineering technician, construction engineering technician (co-op), electrical engineering technician, electronics engineering technician, instrumentation engineering - technician, interior design, mechanical engineering technician, survey technician (co-op).

Additional admission requirements: years 3 and 4 general or advanced level mathematics (business mathematics not acceptable); aviation flight management – MOT CAT 1 medical examination for commercial pilots, pre-interview questionnaire, orientation interview, admission test, years 3 and 4 English.

One-year certificates
College vocational program, electronics servicing techniques, heating refrigeration and air conditioning techniques, industrial mechanical maintenance techniques, industrial woodworking techniques, motive power techniques (heavy equipment), motive power techniques (marine and small-powered equipment), stationary engineer 3rd and 4th class, welding techniques.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Apprenticeship
See CAAT chart for programs offered, and the *Apprenticeship* section for details.

Continuing education
Confederation offers over 500 credit and non-credit subjects. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and the college calendar or contact the Continuing Education Office.

Adult training progams
Building maintenance, English as a second language, women in trades and technology, and a number of skills programs are offered. Contact the college for further information.

Ontario Management Development Progra
This program provides an opportunity for managers, supervisors, and small-busines owners/operators to increase their knowledge and skill. Ontario provincial certificates are available upon the completion of an appropriate selection of six credits. The two certificates currently available are in business management studies and supe visory studies. For more information, conta the Registrar's Office or the Continuing Education Division.

Ontario Skills Development Offices
Ontario has established a high-quality training consulting service for Ontario firms – th Ontario Skills Development Offices (OSDOs). Each OSDO is managed by the CAAT responsible for the geographic area i which the OSDO is established. It provides regionally appropriate services and staffing to develop greater participation by smaller employers and significantly improved participation of groups previously under-represented in training.

The objectives of the training consulting service are to ensure that Ontario firms recognize the role training plays in addressing productivity and efficiency problems, tha training needs are accurately identified, and that these needs are met in the most effective and cost-efficient manner.

The elements of training consulting in this service are: providing relevant information on training and education, identifying and analysing training needs, developing or validating training plans, providing advice and assistance in arranging training instruction in English or French to implement training plans, recommending incentive funding, and following-up, evaluating, and certifying the training.

The Ontario Skills Program encourages firms to provide training for their employees by lowering the costs of training. The program provides grants against a portion of direct instructional costs of training. Recommendations for Ontario Skills funding are made by the Ontario Skills Development Offices.

Further Information

For further information on admission requirements and for details about programs and facilities, please contact

Mr. Joseph A. St. Amand, Registrar
Ms. Linda Turk, Community Liaison Officer
Mr. Bob Armstrong, Director of Community Relations
Mr. Robert Griffiths, Financial Aid Officer

Confederation College of Applied Arts and Technology
P.O. Box 398, Station F
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
Ontario, Manitoba, and Saskatchewan residents call toll-free
1-800-465-5005.

Durham College of Applied Arts and Technology

Oshawa

President: Gary Polonsky

Enrolment 1989-90

Full-time enrolment	2 663
Part-time registrations	22 572

Durham's main campus is located in Oshawa; satellite campuses are located in Port Hope, Beaverton, Uxbridge, and Ajax. Durham College offers a wide selection of programs, five of which are unique: aviation transport and industrial engineering technology, industrial management, legal administration, office administration – engineering, and sports administration.

Programs Offered

• Applied Arts

Three-year diplomas
Interior and graphic design, public relations.

*Two-year diplomas (*optional third year)*
Advertising administration, early childhood education, entertainment administration, food and beverage management, general studies, human services worker, law and security administration, journalism, *sports administration.
Additional admission requirements: Grade 12 English; interior and graphic design – portfolio.

One-year postdiploma
Sports administration.
Additional admission requirements: graduation from recognized sports administration program, university degree in physical education with administration minor or equivalent fieldwork experience.

• Business

Three-year diplomas
Business administration (accounting, general, information systems, marketing, production and operations management), fashion retail merchandising, legal office administration, office systems administration.
Additional admission requirements: Grade 12 English, Grade 12 mathematics recommended. Students wishing to take a three-year program should be aware that it is academically more demanding (particularly in mathematics) than a two-year program.

Two-year diplomas
Business (accounting, human resources, information systems, marketing, materials management), office administration (secretarial) (engineering, general, medical, legal, word processing).
Additional admission requirements: business – Grade 12 English, Grade 12 mathematics preferred.

• Health Sciences

Three-year diploma
Nursing.
Upon successful completion of the examinations set by the College of Nurses of Ontario, this program leads to certification as a registered nurse. Limited enrolment.
Additional admission requirements: Grade 12 English, senior level chemistry and biology, program-specific questionnaire.

One-year certificates
Nursing assistant.
Upon successful completion of the examinations set by the College of Nurses of Ontario, this program leads to certification as a registered nursing assistant. Limited enrolment.
Additional admission requirements: senior level biology, program-specific questionnaire; mature students whose work experience and personal background indicate a likelihood of success are encouraged to apply.

Dental assistant.
This program is designed to prepare skilled assistants for employment in dental offices and clinics. Limited enrolment.
Additional admission requirements: Grade 12 English, senior level credits in chemistry and biology, program-specific questionnaire, typing/keyboarding recommended.

Dental hygiene.
This program is designed to train students to the level that will qualify them to write the Royal College of Dental Surgeons registration examination for hygienists. Limited enrolment.
Additional admission requirements: successful completion of the dental-assisting program in an Ontario CAAT, or equivalent*, minimum one year's full-time work experience as a dental assistant, program-specific questionnaire.
*Equivalent: certified dental assistant with at least one year's full-time work experience within the past five years, HARP certified, and credits in the following CAAT courses: anatomy and physiology, dental anatomy, nutrition, preventive dentisty.

• Technology

Three-year diplomas (technology)
Aviation transport and industrial engineering, chemical engineering, civil engineering, electronics engineering (computer and industrial options), food and drug, mechanical engineering (CAD/CAM and production options).
Additional admission requirements: year 4 English and mathematics (general-technical or advanced) required; general level science credits an asset.

Two-year diplomas (technician)
Civil, electromechanical (robotics), electronics (computer and office information systems options), mechanical.
Additional admission requirements: year 4 English and general-technical or advanced mathematics.

• Non-Semestered Programs
On request and to fill specifically identified needs, Durham offers programs ranging from eight to 64 weeks in length, leading to certificates and diplomas in high-technology programs such as electronics, CAD/CAM, computer science, and computer graphics.
Through the Durham Manufacturing and Automation Centre, the Technology Division offers training programs in CAD/CAM (Computervision and Solution 3000), PLC (Allen-Bradley), and robotics. Other customized courses are developed and offered as needed by our industrial clients.

Academic upgrading
Through the newly created Consulting Services, Access and Productivity Division, Durham College offers a number of upgrading and college preparatory programs. It also offers skill programs and special programs for business and industry. The programs include: vocational assessment, literacy, academic upgrading, college preparatory (pre-business, pre-health, pre-technology), youth, women's pre-apprenticeship, apprenticeship, commercial, consulting for business and industry. Contact the C.A.P. division at the Simcoe Building of Durham College.

Continuous Learning
Along with a variety of non-credit, special-interest courses, Durham offers certificate and diploma program courses on a part-time basis throughout the year. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and contact the Admissions Office or the Dean of Continuous Learning.

Further Information

For further information about admission requirements and details on programs and facilities, please contact

Admissions Officer/Liaison Officer
Durham College of Applied Arts and
Technology
P.O. Box 385
2000 Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210
Toll-free 1-800-668-5843

For information about student awards and loans, please contact

Financial Aid Officer
Durham College of Applied Arts and
Technology
P.O. Box 385
2000 Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210
Toll-free 1-800-668-5843

Fanshawe College of Applied Arts and Technology

• London

President: Dr. Barry Moore

Enrolment 1988-89

Full-time enrolment	5 986
Part-time registrations	54 245

The Fanshawe College main campus is located in London. The college has three other campuses, which serve the counties of Middlesex, Elgin, Oxford, and the Norfolk portion of the Haldimand-Norfolk region.

Campus locations:

Oxford St. Campus
1460 Oxford St. East
London, Ont.
N5W 5H1

St. Thomas Campus
10 Ontario Road
St. Thomas, Ont.
N5P 3N4

Woodstock Campus
369 Finkle St.
Woodstock, Ontario
N4V 1A3

J.N. Allan Campus
Ireland Rd.
Simcoe, Ontario
N3Y 4K4

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Communications (majors in advertising art, fine art, photography), community services (major in child and youth worker), design – co-op (majors in fashion, interior, industrial, landscape, urban).

Two-year diplomas
Communications (majors in audio-visual technician, broadcasting radio, broadcasting television, journalism broadcast, music industry arts – recording engineering and recorded music production, photography), community services (majors in developmental services worker, early childhood education, social service worker), consumer services (majors in general arts and science, fitness and health promotion, law and security administration (police program and general program)), hotel and restaurant management – co-op, legal assistant – co-op, library technician, recreation leadership, tourism and travel counsellor – co-op, urban affairs and real estate.

Additional admission requirements: law and security administration, legal assistant – Grade 12 English.

One-year certificate
Legal assistant – co-op.

Additional admission requirements: at least one complete year of postsecondary education or at least two years' related work experience.

• Business

Three-year diplomas
Business administration (majors in accounting – co-op, marketing), business information systems – co-op.

Two-year diplomas
Business (majors in accounting – co-op, computer programmer, finance – co-op, information systems – co-op, marketing – co-op, purchasing), farm business management, office administration (executive – co-op, legal – co-op, medical – co-op).

One-year certificate
Health office administration, office administration – general.

Additional admission requirements: health office administration – graduate of a recognized health care program with at least two full years' related experience, or OSSD/OSSGD or mature applicant with appropriate preparation and at least three full years' experience in a health care field.

• Health Sciences

Three-year diploma
Medical laboratory technology, nursing.

Additional admission requirements: medical laboratory technology – Grade 12 advanced English, Grade 12 advanced mathematics, Grade 11 or 12 advanced chemistry, Grade 11 or 12 advanced biology; nursing – Grade 12 English (preferably advanced), Grade 11 or 12 human biology (preferably advanced), Grade 11 or 12 chemistry or physics, Grade 11 mathematics for technology or for business and consumers. *Note: for nursing, the minimum final grade for each required course is 60% for advanced level courses and 70% for general level courses.*

Two-year diplomas
Radiography, respiratory therapy.

Additional admission requirements: radiography – two credits in Grade 11 and/or 12 advanced mathematics and two credits in Grade 11 and/or 12 advanced English, one credit in Grade 11 or 12 advanced physics, one credit in Grade 11 or 12 advanced chemistry or biology, and two other science credits, general or advanced; respiratory therapy – Grade 12 English, Grade 11 or 12 advanced physics, Grade 11 or 12 chemistry, and Grade 12 advanced mathematics.

One-year certificates
Ambulance and emergency care, dental assistant, health records technician, prehealth science.

Additional admission requirements: ambulance and emergency care – Grade 11 or 12 biology and chemistry Grade 12 English; dental assistant – Grade 11 or 12 chemistry or physics, Grade 11 mathematics for technology or for business and consumers, Grade 11 or 12 biology (preferably advanced), and 30 wpm typing; health records technician – Grade 12 English, one Grade 11 or 12 science credit, Grade 11 or 12 mathematics for technology or for business and consumers or accounting, and 35 wpm typing.

One-year postcertificate
Dental hygiene.

Additional admission requirements: one of: (a) successful completion of CAAT dental assistant program, or (b)OSSD/OSSGD or mature applicant with Grade 11 or 12 bio ogy and chemistry or the equivalent, plus a) proof of certification or eligibility for certification by the Ontario Dental Nurses and Assis tants Association, b) successful completion of the Healing Arts Radiation Protection (HARP) module, and c) at least one year of full-time work experience as a certified or certifiable dental assistant.

• Technology

Three-year diplomas (technology)
Architectural (co-op), civil engineering (co-op), construction engineering management (co-op), control engineering systems (co-op), electrical engineering, electronics engineering (co-op), environmental technology (co-op), manufacturing engineering (co-op), mechanical engineering (mobile equipment) (co-op), science laboratory technology (co-op).

Additional admission requirements: architectural, civil – Grade 12 mathematics for technology; construction management – Grade 12 mathematics for technology; control engineering systems, electrical, electronics – Grade 12 advanced mathematics, Grade 11 or 12 physics; environmental technology, science laboratory technology – Grade 12 mathematics for technology, Grade 11 or 12 chemistry and one of Grade 11 or 12 physics or Grade 12 advanced mathematics; manufacturing, mechanical (mobile equipment) – Grade 12 mathematics for technology.

Two-year diplomas (technician)
Air conditioning refrigeration engineering, architectural, construction (supervisor), electrical engineering (co-op), electronics engineering, electronics technician-robotics and process control (co-op), manufacturing engineering (co-op), mechanical (design) engineering (co-op), metallurgical engineering (co-op), motive power (automotive and diesel), stationary engineering – 4th and 3rd class, survey (co-op).

Additional admission requirements: air conditioning, refrigeration engineering, architectural, construction (supervisor) – Grade 12 mathematics for technology; electrical, electronics, electronics technician robotics and process control – Grade 12 mathematics for technology; survey – Grade 12 mathematics for technology; manufacturing, mechanical (design) – Grade 12 mathematics for technology; metallurgical – Grade 12 mathematics for technology; motive power – Grade 12 mathematics for technology or for business and consumers.

One-year certificates
Construction carpentry techniques, electronics servicing techniques, motive power technician (parts merchandising).

One-year postdiploma
Electronics engineering technician/technology (biomedical).

Additional admission requirements: two-year electronics engineering diploma or electronics technician–robotics and process control diploma or three-year electrical, electronics, or control systems diploma or mature student status with extensive electronics background.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Credit, career, special interest, and co-operative courses and workshops are offered in London and in 25 other communities served by the college. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult the college calendar for details.

Co-operative Education and Community Relations Division
This division provides integrated services through the following departments: Canadian Job Strategies; Co-operative Education and Graduate Placement; Futures; Industrial Skills Development; International Education, Marketing Services; Ontario Training Strategy; Student Liaison and Information Services.

One-third of Fanshawe's full-time postsecondary programs are operated on the co-op plan. Co-op education integrates related on-the-job work experience with classroom theory during alternating periods of work and study. It helps students orient themselves to the world of work, helps them develop their human-relations skills and job-search techniques, and usually results in well-developed career plans before graduation.

Ontario Skills Development is a government program that acts as a customer-service department for employers and is involved with human-resources planning and training.

Canadian Job Strategies is a federal government program designed to meet the area's industrial-skill needs by providing language and skills training and upgrading.

Futures is an Ontario government program designed to assist unemployed young people between the ages of 15 and 24. The Ontario government provides each trainee with a living allowance during periods of in-college or in-industry training.

Further Information

Futher information may be obtained by writing to
Fanshawe College
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4100

or by contacting offices of the college at any of the following Fanshawe College locations

1460 Oxford St. E.
London, Ontario N5W 5H1
Telephone (519) 452-4100

Ireland Rd.
P.O. Box 10
Simcoe, Ontario N3Y 4K4
Telephone (519) 426-8260

369 Finkle St.
Woodstock, Ontario N4V 1A3
Telephone (519) 421-0144

10 Ontario Rd.
St. Thomas, Ontario N5P 3N4
Telephone (519) 633-2030

George Brown College of Applied Arts and Technology

Toronto

President: Douglas E. Light

Enrolment 1988-89

Full-time enrolment	5 977
Part-time registrations	60 804

George Brown College of Applied Arts and Technology operates four main campuses and a continuing education division and offers nearly 200 programs to prospective students.

Campus locations:

Casa Loma Campus
160 Kendal Ave.
Toronto, Ontario
M5R 1M3

Nightingale Campus
2 Murray St.
Toronto, Ontario
M5T 1T6

Kensington Campus
21 Nassau St.
Toronto, Ontario
M5T 1M3

St. James Campus
200 King St. E.
Toronto, Ontario
M5A 3W8

Continuing Education
258 Adelaide St. E.
Toronto, Ontario
M5A 1N1

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Child and youth worker, theatre arts.

Additional admission requirements: Child and youth worker – questionnaire and interview; theatre arts – audition and interview.

Two-year diplomas
Activation co-ordinator, community worker, day care management, early childhood education, general arts and science, human services counsellor, theatre arts.

Additional admission requirements: activation co-ordinator, community worker, early childhood education, human services counsellor – questionnaire and interview.

One-year certificates
Basic employment training (basic training for skills development), day care assistant, English as a second language, English for science and high technology, headstart for the hearing impaired, job readiness (BJRT), redirection through education, straight truck driver, tractor-trailer driver, training the handicapped adult in transition, vocational orientation, working skills for women.

Additional admission requirements: requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information. Straight truck driver, tractor-trailer driver – 18 years of age, with an Ontario driver's licence. Students must produce an Ontario Driver's Licence Conversion Form, available from any Ontario Driver Examination Centre.

Fashion Technology

Three-year diplomas
Jewellery arts.
Additional admission requirements: portfolio required.

Two-year diplomas
Apparel manufacturing management, ceramics, creative fashion design, esthetician, furniture production and design, watch technician.
Additional admission requirements: questionnaire and orientation interview may be required.

One-year certificates
Apparel pattern drafting, furniture (woodworking and finishing), furniture upholstery (repair), gemmology, industrial power sewing, industrial power sewing machine mechanic.
Additional admission requirements: requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

One-year postdiploma
Gem setting, jewellery repairs.

Graphic Arts

Three-year diplomas
Graphic arts printing technology, graphic design.
Additional admission requirements: graphic arts printing technology – Grades 11 and 12 English and mathematics, tests in mechanical reasoning and colour vision acuity; graphic design – portfolio and art test.

Two-year diplomas
Printing technician, graphic sign design and production.
Additional admission requirements: Grades 11 and 12 English and mathematics, tests in mechanical reasoning and colour vision acuity.

One-year certificates
Commercial art, computer typesetter, offset printing, screen process printing, signwriting.
Additional admission requirements: requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

• Business

Three-year diplomas (six semesters)
Business administration (options in accounting, marketing, small business), court reporting (stenograph).
Additional admission requirements: business administration – Grades 11 and 12 mathematics and English; court reporting (stenograph) – Grade 12 English, English aptitude test, 25 wpm typing.

Two-year diplomas
Business (options in accounting, distribution logistics, general, information systems, insurance, marketing) (September and January admission), computer programmer, health records administrator, property management, retail management, office administration (options in general, executive, legal, medical and information systems) (September and January admission), records and information management.
Additional admission requirements: business, computer programmer, property management, records and information management, retail management – Grades 11 and 12 English and mathematics; office administration – Grades 11 and 12 English, 35 wpm typing; health records administrator – Grade 12 chemistry, English, and mathematics, Grade 11 biology, questionnaire; property management – interview.

One-year certificates
Automated office procedures, court reporting (stenomask) (three trimesters), receptionist-typist, sales.
Additional admission requirements: court reporting (stenomask) – interview, tests in English and voice; sales – Grades 11 and 12 mathematics and English.

One-year certificates
Microcomputer applications training, microcomputer operator, STEP (secretarial training and employment program), systems analyst.
Additional admission requirements: requirements vary according to the program. Many programs require less than an OSSGD. Contact the college for information.

Hospitality

Two-year diplomas
Culinary management, food and beverage management, hotel management.
Additional admission requirements: an orientation interview.

One-year certificates
Baking techniques, bartending, chef training (pre-employment) (September and January admission), Chinese cooking (basic and advanced), dining room service, food preparation general (basic and advanced), food service and bartending, food service supervisor, hotel front office and reception, retail meat cutting.
Additional admission requirements: requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

• Health Sciences

Three-year diplomas
Chiropody, dental technology, denture therapy, nursing.
Additional admission requirements: dental technology, denture therapy – Grade 12 English and chemistry, Grade 11 physics and biology, manual dexterity test; chiropody, nursing – Grade 12 chemistry, English, and mathematics, Grade 11 biology and physics.

Two-year diplomas
Fitness instructor, orthotic/prosthetic technician.
Additional admission requirements: fitness instructor – Grade 12 English and Grade 11 biology, selection test; orthotic/prosthetics technician – Grade 11 and 12 English, physics, and biology, manual dexterity test.

Two-year postdiploma
Clinical methods in orthotics/prosthetics.
Additional admission requirements: graduate in orthotic/prosthetic technician, kinesiology, physiotherapy, physical education or other related programs, interview.

One-year diploma
Dental assistant.
Additional admission requirements: Grade 12 chemistry, Grade 11 biology, 30 wpm typing, selection test.

One-year postsecondary
Pre-health sciences (September and January admission).

One-year postdiploma
Dental hygiene (expanded duties), dental hygiene, registered nurse–critical care (September and February admission), registered nurse–perinatal intensive care (September and February admission), registered nurse–occupational health nursing, registered nurse–operating room (September and February admission), registered nurse–rehabilitation nursing, upgrading program for graduate nurses (September, December, and March admission), mental health program.
Additional admission requirements: dental hygiene (expanded duties) – Ontario certification as a dental hygienist, one year of work experience, manual dexterity test, interview; dental hygienist – Ontario certification as a dental assistant, 8 months' work experience, dental science test.

16-week certificate
Health care aide.
Admission requirements: Grade 10, fluency in English, or mature student with some work experience in the field.

• Technology

Three-year diplomas
Air conditioning engineering technology, architectural technology, civil engineering technology, construction engineering technology, electrical engineering technology, electronics engineering technology (two calendar years), instrumentation engineering technology (two calendar years),

mechanical engineering technology (tool and machine design).

Additional admission requirements: civil, construction – Grades 11 and 12 mathematics (business mathematics not included); electrical, electronics, instrumentation – Grades 11 and 12 English and mathematics.

Two-year diplomas
Air conditioning/refrigeration engineering technician, architectural technician (drafting), civil engineering technician, construction engineering technician (management), drafting technician, electrical engineering technician, electronics engineering technician, instrumentation engineering technician (industrial), mechanical engineering technician (drafting design–CAD/CAM), mechanical engineering technician (machine design), mechanical engineering technician (production), mechanical engineering technician (tool design), mechanical engineering technician (toolmaking), mechanical technician (maintenance), mouldmaking technician, piano technician, residential construction management, stationary power plant engineering, watch technician, welding technician.

Additional admission requirements: electrical, electronics, instrumentation (industrial), mechanical (toolmaking), stationary power plant engineering – Grades 11 and 12 English and mathematics; air conditioning, refrigeration, civil, construction (management), drafting technician, mechanical (building services drafting), mechanical (drafting design), mechanical (tool design) – Grades 11 and 12 mathematics; piano technician – audition and interview.

One-year certificates
Appliance servicing, business equipment servicing, carpenter general, drafting, electronics (audio equipment and systems), electronics (basic skills, cable distribution systems, desktop composition, digital equipment and systems, home product link (HPL) installation and service, industrial control, interfacing microcomputer peripherals, office systems servicing, satellite TVRO servicing, video production and editing, video systems and service), gas fitter, heating technician, industrial electronic controls (journeyman), industrial power sewing machine mechanic, instrumentation mechanic, machine shop, masonry, mechanical engineering drafting, microcomputer maintenance, process piping design technician, pre-technology, refrigeration, stationary engineering (4th class), welding fitter, welding fitter refresher, welding industrial pipe, welding operator, welding specialist, women into trades and technology.

Additional admission requirements: requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

• Alternative Learning

Academic upgrading, pre-health science. For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

Apprenticeship
Some of these programs are offered on a part-time or day-release basis as well as in the traditional pattern of 8 to 10 weeks at the college separated by on-the-job training. For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
George Brown College offers several hundred continuing education courses, both day and evening, throughout the year. Along with general interest courses, credit courses and refresher courses for professionals (those in skilled trades and high-technology areas), are available. The Continuing Education Department also co-ordinates special courses for various professional associations.

For general information, see "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the Information Services Department at the college for brochures and specific information: (416) 867-2464.

Training in Business and Industry
This department co-ordinates the Futures program, the Canada Manpower Industrial Training Program (CMITP), the TIBI service for business and industry (through which specially developed and individualized packages of courses or programs are conducted on the client's premises), and the Ontario Management Development Program (OMDP) courses, several of which are available on a modular basis.

Further Information
Additional information is available by contacting
Information Services Department
George Brown College of Applied Arts and Technology
Box 1015, Station B
Toronto, Ontario M5T 2T9
Telephone (416) 867-2000, 867-2464

Georgian College of Applied Arts and Technology

Barrie

President: Wayne F.J. Busch

Enrolment 1989-90

Full-time enrolment	3 890
Part-time registrations	28 142

Georgian College has three major campuses: Barrie, Orillia, and Owen Sound, and maintains regional campuses in Parry Sound, Midland, Collingwood, and Orangeville.

Campus locations:
Owen Sound Campus
1150 8th St. E.
P.O. Box 700
Owen Sound, Ontario
N4K 5R4

Barrie Campus
One Georgian Dr.
Barrie, Ontario
L4M 3X9

Orillia Campus
825 Memorial Ave.
P.O. Box 2316
Orillia, Ontario
L3V 6S2

Programs Offered

• School of Design and Visual Arts

Three-year diplomas
Design arts programs include creative arts (Barrie, Owen Sound), graphic design (Barrie, Owen Sound), industrial design (Barrie), interior design (Barrie), and jewellery and metals (co-op).

Additonal admission requirements: industrial design – Grade 12 mathematics for technology; jewellery and metals – portfolio or first semester of foundation year.

Two-year diplomas
Design arts programs offered as two-ear diplomas are the same as the three-year programs, except for jewellery and metals.

Academic upgrading
This training is available at all three campuses. For programs, see the CAAT chart at the beginning of this section. For a general description, see "Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

• School of Business

Three-year diplomas
Business administration (co-op) (Barrie, Owen Sound), business administration–accounting (co-op) (Barrie), business administration–marketing (co-op) (Barrie),

business administration–automotive marketing (co-op) (Barrie), business administration–automotive marketing/*administration des affaires marketing automobile* bilingual (co-op) (Barrie), computer programmer/analyst (co-op) (Barrie).

Additional admission requirements: computer programmer/analyst – Grade 12 general mathematics and English strongly recommended.

Two-year diplomas
Advertising (Barrie), business (second-year options in marketing (co-op) (Barrie, Orillia) and accounting (co-op) (Barrie, Orillia, Owen Sound), computer programmer (co-op) (Owen Sound), fashion merchandising (Barrie), office administration (legal) (Barrie, Owen Sound) (medical) (Barrie), law and security administration (Barrie, Owen Sound), retail marketing (co-op) (Owen Sound).

Additional admission requirements: advertising, office administration (legal, medical), law and security administration – Grade 12 general level English.

One-year certificate
Office administration–general (Barrie, Owen Sound).

Additonal admission requirements: Grade 12 general level English.

• School of Applied Arts and Health Sciences

Three-year diploma
Nursing (Barrie, Orillia, Owen Sound). The Owen Sound program is a modified program, and the starting date varies.

Additional admission requirements: two Grade 11 or 12 general level sciences (biology and either chemistry or physics), Grade 12 general level English and Grade 12 general level mathematics for technology, and basic cardiac life support certificate recommended.

Two-year diplomas
Developmental services worker (Orillia), early childhood education (Orillia), general arts and science (Barrie, Owen Sound), ophthalmic dispenser (Barrie).

Additional admission requirements: developmental services worker – Grade 12 general level English; early childhood education – Grade 12 general level English; ophthalmic dispenser – Grade 12 general level mathematics, Grade 11 general level physics.

• Developmental Programs

Two-year diploma and one-year certificate
The general arts and science program delivers courses in core areas such as language, humanities, and physical and social sciences. There is a health sciences option and an interim semester option that provides candidates with an opportunity to increase their academic skills.

One-year certificates
Dental assistant (Orillia), general arts and science (Barrie, Owen Sound), health sciences foundation (Barrie), nursing assistant (Orillia, Owen Sound).

Additional admission requirements: dental assistant – Grade 12 general level English and Grade 11 or 12 general level biology and chemistry, typing at 30 wpm; health sciences foundation – recommended: Grade 12 general level English and mathematics for technology, Grade 11 or 12 general level biology and chemistry or physics; nursing assistant – basic cardiac life support certificate recommended, applicants intending to enter the nursing program must meet the requirements of that program.

One-year diploma
Dental hygiene (Orillia).

Additional admission requirements: graduate (with certification) of a recognized dental assisting program with an average grade of at least 80%, 6 to 12 months' full-time work experience as a certified dental assistant, first aid and CPR certificates.

One-year postgraduate certificate/diploma
Communicative disorders assistant, recreation for special populations.

Additional admission requirements: college diploma or university degree in a social sciences or human services program.

Other courses
The general arts and science program offers courses in core areas such as language, humanities, and physical and social sciences. A health sciences option and an interim semester option enable students to increase their academic skills.

• School of Engineering Technology

Three-year diplomas (technology)
Civil aviation (Barrie) (air carrier management and operations (co-op), airport management and operations (co-op), air traffic services (co-op)), civil engineering technology (co-op) (Barrie), electrical engineering (co-op) (Barrie), electronics engineering (co-op) (Barrie), mechanical engineering (co-op) (Barrie), marine engineering technology (co-op) (Owen Sound), marine technology – navigation (co-op) (Owen Sound), marine technology–recreation (co-op) (Orillia).

Additional admission requirements: Grade 12 general level English and mathematics for technology, Grade 11 or 12 general level physics or chemistry recommended; marine engineering – Grade 12 general level English and mathematics for technology required, Grade 11 general level physics recommended; navigation – Grade 12 general level English and mathematics for technology required, chemistry and Grade 11 general level physics recommended; marine technology–recreation – Grade 12 general level English and mathematics for technology required, Grade 11 or 12 general level physics or chemistry recommended.

Two-year diplomas (technician)
Civil engineering (co-op) (Barrie), electrical engineering (co-op) (Barrie), electronics engineering (co-op) (Barrie), mechanical engineering (co-op) (Barrie), mechanical engineering – tool and die (co-op) (Barrie), survey (co-op) (Barrie).

Additional admission requirements: Grade 12 general level English and mathematics for technology required, Grade 11 or 12 general level physics or chemistry recommended.

• School of Tourism and Hospitality

Three-year diplomas
Hotel and resort administration (co-op) (Barrie), tourism management (co-op) (Barrie).

Two-year diplomas
Culinary management (co-op) (Barrie), hote and resort operation (co-op) (Barrie, Owen Sound).

Additional admission requirements: Grade 12 general level English and mathematics.

School of Continuous Learning
Both credit and non-credit courses are offered in a number of locations throughout the Georgian Bay region. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the School of Continuous Learning at the college for details and admission requirements.

Co-operative education
Georgian College operates many co-operative programs. These programs have both an academic element and a paid-work portion, and require students to work in industry. The paid-work element may extend from four to eight months, depending on the nature of the program and arrangements made with industry. Co-op work terms must be completed to meet program requirements for graduation.

Additional Costs

Additional costs that must be borne by the student are as follows:
(a) textbooks and equipment, minimum of $200 to a maximum of $1 200 for first year;
(b) off-campus accommodation and board, at least $75 per week.

The Barrie campus of the college, through a private development called Georgian Green, has residence facilities for 250 students.

Further Information

Additional information is available from
Roman Woloszczuk,Registrar

Cathy Neuss,Manager, Office Services (Admissions/Registration)

Steve Robinson, Manager, Financial Aid

Jim Mackey, Director, College Information Services

Georgian College of Applied Arts and Technology
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951 or 722-1511
Toll-free 1-800-461-9696

Information concerning the Owen Sound Campus may be obtained from
Office of the Registrar
Georgian College of Applied Arts and Technology
1150 8th St. E.
P.O. Box 700
Owen Sound, Ontario N4K 5R4
Telephone (519) 376-0682

Information concerning the Orillia campus may be obtained from
Office of the Registrar
Georgian College of Applied Arts and Technology
825 Memorial Ave.
P.O. Box 2316
Orillia, Ontario L3V 6S2
Telephone (705) 325-2705
Toll-free 1-800-461-0218

Humber College of Applied Arts and Technology

Toronto

President: Robert A. Gordon

Enrolment 1988-89

Full-time enrolment	8 433
Part-time registrations	88 483

Humber College offers a variety of programming at seven locations, which serve the Etobicoke and York areas. The North and Lakeshore campuses offer a full range of postsecondary programs, a large selection of technical certificates, and apprenticeship and career-oriented programs. The York-Eglinton Centre and Keelesdale campuses offer academic and commercial programs, English as a second language, and many community programs and part-time courses.

Campus locations:

North Campus
205 Humber College
Etobicoke, Ontario

Osler Campus
5 Queenslea Ave.
Weston, Ontario

Woodbine Centre
500 Rexdale Blvd.
Etobicoke, Ontario

Keelesdale Campus
88 Industry St.
Weston, Ontario

Humber Lakeshore Campus
3199 Lakeshore Blvd.
Toronto, Ontario

Sailing School
Humber Bay Park W.
Lakeshore Blvd.
Etobicoke, Ontario

York-Eglinton Centre Campus
1669 Eglinton Ave.West
Toronto, Ontario

Programs Offered

• Arts and Science – Applied

Diplomas
Advertising and graphic design, advertising (media sales), audiovisual technician, creative photography, fashion arts (modelling, fashion, and cosmetic management), film and TV production, industrial design, interior design, journalism, landscape technician/technology, music, nature interpreter (postdiploma), package design, photographic laboratory technician, public relations, radio broadcasting, retail floristry, theatre arts, urban tree maintenance technician.

Additional admission requirements: many of the above require a pre-admission interview, audition, and/or test.

Certificates
Arts administration, design foundations, grounds maintenance, photocraphic laboratory operator, public relations (postdiploma), radio broadcasting (postdiploma).

Additional admission requirements: see above.

Human studies diplomas and certificates
General arts and science.

Human studies academic certificates
Academic upgrading (college preparatory), advanced English as a second language, job-readiness training, English as a second language.

Additional admission requirements: admission is open to any adult 19 years of age and over on a "first-come, first-served" basis. Most applicants are requested to take functional level testing, after an interview with an admissions officer. Advanced English as a second language requires two to three years' practical work experience in English, above and beyond completion of the basic program.

• Business

Diplomas
Accountancy, business administration (profiles in human resources management, marketing administration, microsystems management, operations management, and management systems), computer information systems, computer programming (co-op and continuous non-semester), computer programming (systems analyst) (co-op), legal assistant, marketing (profile in merchandising management), microcomputer management, office administration–secretarial (executive, legal, medical), retail management (co-op), word processing.

Additional admission requirements: Grade 12 general level English required, Grade 12 mathematics recommended.

Certificates
Human resources management, marketing management (postdiploma), small-business management.

Additional admission requirements: a pre-admission interview and pre-tests in communications and mathematics may be required; human resources management, marketing management – college diploma, university degree, or related experience.

• Health Sciences

Diplomas
Early childhood education, early childhood education for the developmentally handicapped, funeral service education, nursing.

Certificates
Ambulance and emergency care, dying and bereavement (postdiploma), early childhood education resource teacher (postdiploma), gerontology (postdiploma), health care aide and activation assistant, human sexuality counselling and teaching (postdiploma), life-threatening illness (postdiploma), nursing assistant, pharmacy assistant, registered nursing (postdiploma specialities), registered nursing assistant–operating room (postcertificate).

Additional admission requirements: pre-admission interview (group or individual) and/or testing and health certificate (health history and physician's statement of health). Please check college brochures for specific academic and other additional requirements for programs listed in this area.

• Hospitality, Tourism, and Leisure Management

Diplomas
Arena management, culinary management, equine studies, food industry technician, hotel and restaurant administration, recreation leadership, ski resort operations and management, travel and tourism.

Additional admission requirements: Grade 12 general level English, Grade 12 mathematics highly recommended.

Certificates
Food and beverage service, entry-level cook, food preparation, horse care and equine skills, jockey training and exercise rider, ski resort operations management (diploma and certificate), recreation club management, sports equipment specialist.

Additional admission requirements: some programs may require a pre-admission interview and/or related work experience.

• Human Services

Diplomas
Child and youth worker, developmental services worker, law and security administration, rehabilitation worker, social service worker.

Additional admission requirements: volunteer experience, pre-admission interview, or attendance at orientation session, medical examination, and in some cases testing.

• Technology

Diplomas
Air conditioning and refrigeration engineering, architectural (design) technician/technology (co-op), chemical (industrial) engineering technology, chemical (laboratory) technician, chemical (microbiology) technology, civil engineering technician/technology (co-op), computer engineering technology, electrical engineering technology (control systems), electronics engineering technician/technology, electromechanical engineering technician/technology, hydrographic survey technology, industrial (management) engineering technology, environmental systems engineering technology (energy management), instrumentation (industrial) engineering technician, manufacturing engineering technician/technology, mechanical (drafting design) engineering technician, mechanical (numerical control) technician, mechanical (tool and die) engineering technician, quality engineering technician/ technology, safety engineering technology, small craft and marina technician/technology.

Additional admission requirements: Grade 12 English, Grade 12 technical or academic mathematics; some programs also require a senior science and senior technical courses. All credits should be on a general level.

Technical certificates
Cabinet making, computer numeric control machine programmer/operator, electronics, industrial maintenance (packaging) mechanic, marine and small-powered equipment mechanic, welder fitter, welder refresher.

Additional admission requirements: functional level testing is required, and a pre-admission interview may be requested. A working knowledge of mathematics, fractions, decimals, mixed operations, measurement, and dimensions is recommended. In several programs, substitution, equations, formulas, and graphing (trigonometry) may also be required.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuous learning
Continuous Learning and Development provides part-time studies and activities in more than 1000 special interest areas. It offers credit and special interest courses and workshops, as well as seminars and conferences in response to a continuing liaison with business, industrial, government, and community organizations. In addition, each of the college's divisions endeavours to meet the needs of the community by offering specialized programs for credit purposes as well as courses designed to meet the general interests of the community. These courses are offered at all campus locations and the Neighbourhood Learning Centres.

Further Information

For further information on admission requirements and details about full-time programs and facilities, please contact

Office of the Registrar
Humber College of Applied Arts and Technology
P.O. Box 1900
Etobicoke, Ontario M9W 5L7
Telephone (416) 675-5000

For a calendar of continuing education courses, please contact

Continuous Learning and Development
Humber College of Applied Arts and Technology
P.O. Box 1900
Etobicoke, Ontario M9W 5L7
Telephone (416) 675-5005

For information on and application forms for the Ontario Student Assistance Program, please contact

Financial Aid Office
Humber College of Applied Arts and Technology
P.O. Box 1900
Etobicoke, Ontario M9W 5L7
Telephone (416) 675-3111

Lambton College of Applied Arts and Technology

Sarnia

President: Tony Wilkinson

Enrolment 1989-90

Full-time enrolment	1 775
Part-time registrations	13 504

Lambton College serves the Sarnia/ Lambton County area.

Campus locations:

Modeland Road Campus
1457 London Rd.
P.O. Box 969
Sarnia, Ontario
N7T 7K4

Riverside Campus
265 N. Front St.
P.O. Box 969
Sarnia, Ontario
N7T 7K4

Kettle Point Campus
P.O. Box 748
Forest, Ontario
(upgrading only)

Industrial Fire School
Lasalle Rd.
Sarnia, Ontario
(fire training for industry)

Mechanics Training Centre
K-Mart Shopping Centre
London Rd.
(automotive mechanics
and small-engine repair)

Programs Offered

• Arts and Science – General and Applied

Two-year diplomas
Early childhood education, general arts and science, hospitality and tourism management, law and security, parks operation and services, radio television and journalism arts, social service worker.

One-year certificates
Art fundamentals, early childhood education resource teacher, graphic design fundamentals, infant/ toddler care and guidance.

Additional admission requirements: early childhood education resource teacher – successful completion of a 2-year early childhood education prgram; infant/toddler care and guidance – successful completion of the first year of, or graduation from, an acceptable early childhood education program Each 10-week term is offered over two consecutive summers.

Note: Students with an appropriate selection of OACs may be admitted directly to the second year of any general arts and science programs.

• Business

Three-year diplomas
Accounting, business administration (majors in accounting, marketing, combination accounting/marketing), computer programmer analyst.

Additional admission requirements: computer programmer analyst – mathematics for technology.

Two-year diplomas
Business (options in accounting, marketing), computer programmer, office administration (majors in executive, medical).

The business and business administration programs have a common first term, enabling new students to delay selecting their programs until the beginning of the second term. Office administration has a common first year, with specialization in the second year. Students can then make an enlightened decision about the choice of their programs.

One-year certificate
Industrial sales, office administration.

• Health Sciences

Three-year diplomas
Nursing (six terms).
Graduates of this program are able to plan and give care to individuals of all ages, and to function as general staff nurses in health care agencies in which leadership is provided by experienced personnel.

Selected clinical experiences provide the opportunity for students to relate theory to nursing practice. Students receive clinical experience in a variety of community agencies, general hospitals, public health agencies, doctors' offices, and senior citizens' and extended care facilities.

Successful completion of this program qualifies graduates to write the registration examinations of the College of Nurses of Ontario.

Additional admission requirements: OSSD with at least 70% at the general level and 60% at the advanced level in year 4 English and mathematics; biology, chemistry, and physics at year 3, year 4, or OAC, or equivalent; information sessions; mature students may also be considered for admission.

Medical laboratory technology.
This three-year program emphasizes the theoretical aspects of clinical chemistry, clinical microbiology, haematology, histotechnology, and immunohaematology. Clinical sessions at an associated hospital are used to illustrate the theory and cover the practical aspects of the program.

Admission requirements: OSSD, or equivalent, with at least 70% at the general level and 60% at the advanced level in each required subject: English, chemistry, and mathematics year 4; biology year 3, 4, or OAC; physics year 3, 4, or OAC, which is preferred.

Year 3 (Clinical Year): The clinical year is spent in an associated hospital laboratory of the student's choice, where the practical aspect of the program is stressed. Upon successful completion of the program the students write the national qualifying examination of the Canadian Society of Laboratory Technologists for the Registered Technologist (RT). The RT is acceptable anywhere in Canada and also recognized in the U.S.A. and Britain, among other countries.

• Technology

Three-year diploma
Engineering technology (chemical, electronics, environmental, industrial hygiene, mechanical, instrumentation and control).

Additional admission requirements: satisfactory standing in Grade 11 or 12 physics and Grade 11 or 12 chemistry, Grade 12 English, and Grade 12 mathematics for technology or equivalent.

Two-year diplomas
Engineering technician (air conditioning and refrigeration, chemical, instrumentation control, mechanical, mechanical drafting), power engineering.

Additional admission requirements: engineering technician (chemical, mechanical, power and instrumentation) – satisfactory standing in senior level physics and chemistry, Grade 12 English, and mathematics for technology, or the equivalent; engineering technician (mechanical drafting) – satisfactory standing in senior level physics, Grade 12 English and mathematics for technology required, Grade 11 or 12 chemistry recommended, transfer credit may be given to candidates who have three high school drafting credits.

One-year certificate
Process operations program.
This program is specifically designed to prepare secondary school graduates for employment in the process industries. Planned in co-operation with the process industries in Sarnia's "Chemical Valley", this program provides the student with an understanding of the process equipment employed and of the principles of operation involved.

Additional admission requirements: satisfactory standing in senior level physics and chemistry, Grade 12 English, and mathematics for technology, or equivalent.

Note: Students with satisfactory standing in Grade 13 chemistry, English, mathematics (2), and physics may be admitted to the second year of some technology programs, but will be required to take any first-year courses in which they are deficient.

• Co-operative Education

The college offers students the opportunity to gain insight into careers through work or work-like experiences such as field experience, clinical experience, experiential learning, and co-operative education.

The purpose of co-op is to provide students with valuable work experience that will help them find placement upon graduation, provide an opportunity for them to do some career sampling and put the theory learned in the classroom to practical use, and enable them to earn while they learn.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult college calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Lambton College offers over 350 credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult the college's continuing education brochure for details.

Vocational training
A wide variety of programs is offered, including academic upgrading to the equivalent level of Grade 12, office assistant and word processor operator courses, English as a second language, specialized skill courses, major appliance servicing, marine and small engine mechanic, industrial maintenance mechanic, and the training in business and industry programs. Process operations is also offered in co-operation with the Technology Division.

An industrial day-release program is offered in co-operation with local industry and the Apprenticeship Branch of the Ministry of Colleges and Universities.

Additional Costs, 1989

The estimated cost of books, supplies, and instruments for the academic year for postsecondary students ranges from $300 to $600. There is also a $54 student activity fee, a $13.25 registration fee, a $23.75 graduation fee, and a $25 athletic fee. Co-op students participating in a co-op work placement for more than one month and who are not enrolled in a full-time college program pay a term fee of $50.

Further Information

For further information regarding Lambton College, please contact
Director, Public and Community Relations
Lambton College of Applied Arts and
Technology
1457 London Rd.
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751

Loyalist College of Applied Arts and Technology

Belleville

President: Douglas Auld

Enrolment 1989-90

Full-time enrolment	2 389
Part-time registrations	12 125

Loyalist College serves the Quinte region of Ontario, comprising the counties of Hastings, Lennox and Addington, Prince Edward, and Northumberland, except the town of Cobourg and the western townships of Northumberland.

Programs

• Arts and Science – General and Applied

Two-year diplomas
Advertising, agricultural journalism, broadcast journalism, developmental services worker, early childhood education, general arts and science, law and security administration, photojournalism, print journalism, radio broadcasting, recreation leadership (leisure services co-ordinator), social service worker, television broadcasting.

Additional admission requirements: early childhood education, law and security administration, photojournalism, recreation leadership, social service worker – applicants may be required to complete a questionnaire; broadcast journalism applicants may be required to submit a voice tape. Although interviews are not part of the selection process, applicants are encouraged to attend career counselling sessions.

One-year certificate
College vocational program.

• Business

Three- and two-year diplomas
Accounting, business administration, hotel and restaurant management, information systems (data processing), office administration (options in information management, legal and executive).

Two-year diplomas
Appraisal and assessment, business – marketing, business – sales, travel and tourism.

Additional admission requirements: travel and tourism – questionnaire completion may be required; typing or keyboarding skills recommended.

One-year certificate
Office administration, small business office automation (September and February admission).

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: OSSD including credits in Grade 11 or 12 chemistry (general or advanced), Grade 11 or 12 biology or physics (general or advanced), Grade 11 or 12 mathematics (general or advanced), Grades 11 and 12 English (general or advanced). Mature students (19 years of age and over) must have the required credits or their equivalent. A bridging option is available for registered nursing assistants who qualify. All applicants are required to complete a questionnaire. This program is usually oversubscribed; applicants are urged to apply before March 1.

One-year certificate
Nursing assistant.

Additional admission requirements: OSSD including Grade 11 or 12 general or advanced biology and Grades 11 and 12 general or advanced English, completion of questionnaire. Mature students (19 years of age and over) must have the required credits or their equivalent.

Certificate of achievement
Health care aide.
This is a 16-week course to prepare persons to function creatively with residents in nursing homes, in homes for the aged, and in similar facilities.

Special admission requirement: Grade 10 (certificate of education) or equivalent, or mature student status.

• Technology and Applied Sciences

Three-year diplomas (engineering technology)
Architectural, chemical, civil, electronic, environmental studies, mechanical (manufacturing).

Additional admission requirements: Grade 12 general or advanced mathematics and English required for all programs; architectural, civil – Grade 11 or 12 physics and drafting credit recommended; chemical, environmental studies – Grade 11 or 12 chemistry recommended; electronic – Grade 11 or 12 physics required; mechanical – drafting and machine shop recommended.

Direct access to the second year of the three-year programs may be granted for relevant credits from Grade 13 (or OACs), other community colleges, universities, or other educational institutions at the discretion of the college. Refer to Loyalist's current calendar for specifics. Official transcripts must be provided. Direct access to the third year of the electronics program may be possible for some science students or graduates after an intensive summer session (accelerated computer technology program).

Two-year diplomas (engineering technician)
Architectural, chemical, civil, construction, electronic, environmental studies, mechanical, survey.

Additional admission requirements: Grade 12 English and general or advanced mathematics required for all programs; architectural, civil, construction, survey – Grade 11 or 12 general or advanced physics required, drafting recommended fo architectural; electronic – Grade 11 or 12 general or advanced physics required; chemical, environmental studies – Grade 11 or 12 general or advanced chemistry recommended; mechanical – machine shop and drafting recommended.

One-year certificates (skilled-trades programs)
Chemical laboratory assistant (38 weeks), industrial woodworker (36 weeks), mechanic (industrial manufacturing and processing) (36 weeks). Other skill-training courses may be offered as demand and facilities permit. Consult the college calendar or phone for more information.

Special admission requirements: chemical laboratory assistant – OSSD with Grade 12 general or advanced English and mathematics (technical preferred), Grade 11 or 12 general or advanced chemistry and physics recommended; industrial woodworker, mechanic (industrial manufacturing and processing) – certificate of education (Grade 10 or equialent).

• Alternative Learning

Academic upgrading
The college offers a testing program to help determine academic standing prior to beginning an upgrading program. Consult the college calendar for details.

Apprenticeship
Loyalist College offers classroom instruction for the apprenticeship programs offered by the Apprenticeship Branch of the Ministry of Colleges and Universities. For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Loyalist College offers many courses, includ ing courses offered in co-operation with business and industry associations, leading to certificates and diplomas. Interest and hobby courses are also offered at the Belleville and Bancroft campuses and at many high schools throughout the four counties served by Loyalist College. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult the college calendar fo details.

Further Information

For further information contact
Admissions Office
Loyalist College of Applied Arts and
Technology
Wallbridge-Loyalist Rd.
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 969-1913

Mohawk College of Applied Arts and Technology

Hamilton, Brantford, Stoney Creek

President: Keith L. McIntyre

Enrolment 1989-90

Full-time enrolment	6 419
Part-time registrations	62 160

Mohawk College serves much of the industrial heartland of southwestern Ontario, including Hamilton-Wentworth, Brant County, and the Haldimand portion of the Haldimand-Norfolk Region.

Campus locations:
Mohawk College's Fennell Campus is located on Hamilton Mountain. The college operates a Health Sciences Education Centre at the Chedoke Campus in Hamilton and a nursing campus in Brantford. The Brant-Elgin Campus in Brantford and the Saltfleet Campus in Stoney Creek offer adult training programs; however, a number of postsecondary programs have been introduced at the Brant-Elgin and Saltfleet campuses. The Wentworth Campus (Apprenticeship Training) is located in downtown Hamilton, and the English-Language Centre is located on Hamilton Mountain. At Hagersville, in the Haldimand-Norfolk region, Mohawk College operates an Education Information Centre. The college operates another Education Information Centre, in conjunction with McMaster University, in the Hamilton Public Library complex in the heart of the city.

Programs Offered

• Applied Arts and Health Care

Three-year diplomas
Advertising, applied music, child and youth worker, television broadcasting.

Additional admission requirements: Grade 12 general level English, program questionnaire, interview/audition, and/or orientation.

Two-and-one-half to three-year diploma
Nursing.
Upon successful completion of the examinations set by the College of Nurses of Ontario, this program leads to certification as a registered nuse.

Additional admission requirements: good standing in Grades 11 and 12 advanced level English, two Grades 11 and/or 12 advanced level sciences (physics (recommended), chemistry, or biology), interview, tests. Applicants with any of these credits at the general level will be considered on an individual basis.

Two-year diplomas
Broadcast journalism, early childhood education, general arts and science, harness horse industry, law and security administration, municipal planning and development, radio broadcasting, recreation leadership, social services worker.

Additional admission requirements: program questionnaire, interview, and orientation; harness horse industry – Grade 12 general level English.

• Business and Communications

Three-year diploma
Business administration (optional third-year specialization in accounting and marketing).

Additional admission requirements: Grades 11 and 12 advanced level mathematics or mathematics for technology, Grades 11 and 12 advanced level English (general level considered on an indiviudal basis), and a minimum of nine additional senior level credits.

Two-year diplomas
Accounting (co-op or non-co-op), general business (co-op or non-co-op), insurance, law clerk, marketing (co-op or non-co-op), office administration (executive, legal, medical).

Additional admission requirements: accounting, general business (co-op or non-co-op), insurance, law clerk, marketing (co-op) – Grade 12 general level English and mathematics, ten additional senior level credits; legal assistant – questionnaire and/or interview; office administration (executive, legal, medical) – Grade 12 general level English.

One-year certificate
Medical transcriptionist, office administration – general.

Additional admission requirements: medical transcriptionist – Grade 12 general level English, 45 wpm typing; office administration – general – Grade 12 general level English, 25 wpm typing.

• Engineering and Health Technology

Three-year diplomas (technology)
Architectural (co-op), chemical engineering (co-op), civil engineering (co-op), computer electronics engineering (co-op), computer systems (co-op), electrical control engineering (co-op), electronics engineering (co-op), energy systems engineering (co-op), industrial management (co-op), materials engineering (co-op), mechanical engineering (co-op), transportation engineering (co-op).

Additional admission requirements: Grades 11 and 12 general level English (advanced level advised), Grades 11 and 12 advanced level mathematics or mathematics for technology for all three-year technology programs; chemical, energy, and materials – senior level physics and chemistry; computer electronics, electrical control, electronics – senior level physics; industrial management, mechanical – senior sciences (physics and chemistry) recommended.

Three-year diploma (health)
Medical laboratory technology.
This three-year program leads to a diploma qualifying students to write the General Certificate Examination of the Canadian Society of Laboratory Technologists.

Additional admission requirements: good standing in Grades 11 and 12 advanced level English and mathematics, two advanced level sciences (chemistry and one of biology or physics) in Grade 11 or 12, plus two additional Grade 11 or 12 advanced level courses, and tests. Hospital laboratory visitation (as per Mohawk College listing) is also required.

Two-year diplomas (technician)
Architectural (co-op), chemical, civil engineering (co-op), construction engineering (co-op), data processing (co-op), electrical systems engineering, electronics engineering, industrial engineering, instrumentation, materials testing (co-op), mechanical automation (fluid power).

Additional admission requirements: Grade 12 general level mathematics for technology and English; chemical, materials testing – senior general level physics and chemistry; electrical systems, electronics, fluid power, industrial engineering, instrumentation – general level physics.

Two-year diploma (health)
Radiography.
This program prepares the majority of students for radiographic work in hospital departments.

The academic year consists of eleven months, with one month's holiday. Year 1 constitutes the first year of professional training and may potentially be used as credit toward university studies.

Upon graduation from the program, students will be required to write the CAMRT (Canadian Association of Medical Radiation Technologists) examination in order to become eligible for certification.

Additional admission requirements: good standing in two advanced level mathematics, two advanced level languages (English or French), one advanced level physics, and one of chemistry or biology, all in Grade 11 or 12, plus two other general or advanced level science credits, interview (visit to a radiography department required prior to interview), tests.

One-year postdiploma
Diagnostic medical ultrasound.

Additional admission requirements: all applicants must be graduates of a minimum two-year paramedical program, *i.e.*, radiography, medical laboratory, or nursing; autobiography, references, interview.

• Skills Development

Three-year (co-op)/experiential learning certificate programs
Fitter welder, industrial electrician, industrial machinist, industrial mechanic, tool and die craftsman.

Additional admission requirements: Grade 12 general level English and mathematics for technology, machine shop specialization recommended, aptitude test.

Two-year diplomas (hospitality management)
Food and beverage management (co-op), travel and tourism.
Additional admission requirements: food and beverage management – Grade 12 general level English; travel and tourism – Grade 12 general level English, program questionnaire, and/or orientation.

One-year certificates
Parts management and merchandising, stationary engineer (class 4 and 3).
Additional admission requirements: parts management and merchandising – Grade 12 general level English, physics, chemistry, or a technical subject taken at the Grade 11 level or higher, Grade 11 general level mathematics; stationary engineer – Grade 12 general level English and mathematics for technology, Grade 11 or 12 general chemistry and physics.

Brant-Elgin Campus

Brant-Elgin Campus in Brantford offers the following diploma programs: early childhood education, executive office administration, general business, graphic arts production co-ordinator, graphic design, law and security administration, Native community care (counselling and development), packaging management and technology. In addition, nursing may be taken at the Brantford General Hospital campus.

Three-year diplomas
Graphic arts production co-ordination, packaging management and technology.
Additional admission requirements: graphic arts – Grade 12 English and mathematics, program questionnaire, colour test; packaging – Grade 12 general level English and mathematics for technology.

Two-year diplomas
Graphic design, Native community care (counselling and development).
Additional admission requirements: Graphic design – Grade 12 general level English, questionnaire, art test; Native care – Grade 12 general level English, questionnaire.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Co-operative education
The availability of the co-op system of study is indicated after each program listing. The Department of Co-operative Education serves as the liaison between students, employers, and the students' academic department. Students within the co-op education program are required to successfully complete a specified number of paid work terms, receive a satisfactory evaluation from their employer, complete an acceptable work term report, and adhere to all the rules governing Mohawk's co-op education program.

Experiential learning
Programs are being developed in the experiential learning mode. The college is pursuing the concept of granting credit for competencies acquired in the work field. Several programs have integrated experiential learning components into their curricula. These include: fitter welder, industrial electrician, industrial machinist, industrial mechanic, tool and die craftsman, and data processing.

Short Programs – Adult Training
In addition to regular diploma programs, the college offers a great variety of short programs designed to meet the changing needs of business and industry and to provide upgrading job skills for various segments of the community.
Admission requirements: applicants must be 17 years of age and have been out of school for one year or have an OSSD.

Further Information

For further information on admission requirements and details about programs and facilities, please contact
Registrar or Liaison Department
Mohawk College of Applied Arts and Technology
Fennell Ave. and West 5th
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2000, 575-2115

For information on and application forms for student awards and loans, please contact
Financial Aid Administrator
Division of the Registrar
Mohawk College of Applied Arts and Technology
Fennell Ave. and West 5th
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2133

Niagara College of Applied Arts and Technology

Welland

President: John Saso

Enrolment 1989-90

Full-time enrolment	3 190
Part-time registrations	29 805

Niagara College is the official bilingual colle in Southern Ontario. Early childhood educa tion and tourism are offered as bilingual programs.

Campus locations:
All postsecondary courses are offered at th main campus in Welland, with the exceptio of:

Horticultural technician, offered at
Horticultural Centre
Ivan D. Buchanan Hall
360 Niagara St.
St. Catharines, Ontario L2M 4W1

Hotel and restaurant administration, tourism tours and attractions, *tourisme circuits et a traits touristiques,* and culinary skills, offere at
Hospitality and Tourism Centre
5881 Dunn St.
Niagara Falls, Ontario L2G 2N9

Nursing, offered at
Mack Nursing Education Centre
178 Queenston St.
St. Catharines, Ontario L2R 2Z7

Programs Offered

• Arts and Science – General and Applie

Three-year diploma
Broadcasting – radio and television.
Additional admission requirements: questionnaire, interview.

Two-year diplomas
Early childhood education/*éducation des petits* (bilingual), educational resources and special needs, fashion arts, general college, horticultural technician (co-op), human relations, interior design, journalism-print, law an security administration, social service worker, visual arts-design.
Additional admission requirements: early childhood education, educational resources and special needs, social service worker – in terview, questionnaire; law and security administration – questionnaire, orientation session.

One-year certificate.
College vocational.
Additional admission requirements: intervie

One-year postdiploma
Early childhood education resource teacher (postbasic).
Additional admission requirements: two years' related experience, pre-admissio information form, orientation session.

• Business

Three-year diplomas
Business administration – also offered as January start – second- and third-year specialization in accounting (co-op and non-co-op), human resources management (co-op), information systems, marketing management (co-op), operations management (co-op); hotel and restaurant administration (co-op).

Additional admission requirements: Grade 12 English and mathematics, with 60% at the advanced level or 70% at the general level.

Two-year diplomas
Business – accounting (co-op and traditional), business – sales (business programs also offered starting in January), computer information systems, computer programmer, culinary skills (co-op), legal assistant (co-op), office administration – executive (co-op), retail management (co-op), tourism – tours and attractions (co-op), *tourisme – circuits et attraits touristiques* (bilingual) (co-op).

Additional admission requirements: culinary skills – orientation session.

One-year certificate
Office administration – general.

Additional admission requirements: 40 wpm typing speed.

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: two general level science credits (Grade 12 chemistry and either Grade 11 or 12 biology or physics), written autobiographical sketch, orientation session, college medical report before registration. Applicants must have a minimum of 60% at the advanced level or 70% at the general level in sciences.

Two-year diploma
Health records technician.

Additional admission requirements: interview, 25 wpm typing, questionnaire.

One-year certificates
Ambulance and emergency care, dental assistant, health sciences preparatory, medical transcriptionist – health records.

Additional admission requirements: ambulance and emergency care – two senior level sciences (preferably chemistry and biology), an Ontario Class "F" driver's license, a standard first aid certificate and a Basic Rescuer in Cardiopulmonary Resuscitation (CPR) certificate issued by the Canadian Heart Foundation, orientation session and personal interview, physical fitness test, questionnaire; dental assistant – Grade 12 English, Grade 11 or 12 biology, Grade 11 or 12 chemistry and/or Grade 11 physics with 60% at the advanced level or 70% at the general level in the two sciences, completion of a pre-information sheet sent by the Admissions Office, CPR certificate, proof of having visited a dental office to learn more about this career; health records, medical transcriptionist – 40 wpm typing, interview, questionnaire.

• Technology

Four-year diplomas
Computer engineering (co-op), electrical engineering (power systems) (co-op), electronics engineering (co-op), manufacturing engineering (co-op), mechanical engineering (co-op), microelectronics (co-op).

Additional admission requirements: Grade 12 mathematics and senior physics, with a minimum of 60% at the advanced level or 70% at the general level.

Three-year diplomas (technology)
Construction engineering – architecture.

Additional admission requirements: Grade 12 mathematics, with a minimum of 60% at the advanced level or 70% at the general level.

Two-year diplomas (technician)
Electrical engineering, electronics engineering, horticultural technician, industrial engineering technician – quality control (non-semestered), stationary engineering 3rd class.

Additional admission requirements: Grade 12 mathematics; industrial engineering technician – quality control – senior English, mathematics, physics; stationary engineering 3rd class – senior mathematics and physics.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. For further details, consult the college calendar.

Adult training
Programs offered in adult training are designed to meet the changing demands of business and industry and provide a learning situation whereby persons may be prepared for upward job mobility or entrance to other levels of learning. Contact the college for information on programs offered.

Admission requirements: Applicants must be 17 years of age and out of school for one year or have an OSSD. Please refer to the college calendar for additional admission requirements.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
The college offers a wide variety of both credit and non-credit courses in Welland, St. Catharines, Niagara Falls, and smaller centres throughout the Niagara Region. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar for details.

Further Information

Please address inquiries about admission requirements and specific programs to

Admissions Officer
Niagara College of Applied Arts and Technology
Woodlawn Rd. P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 542

Northern College of Applied Arts and Technology

Haileybury, Kapuskasing, Kirkland Lake, Moosonee, South Porcupine (Timmins)

President: R.J. Gervais

Enrolment 1989-90	
Full-time enrolment	1 390
Part-time registrations	9 605

Northern College has five campuses, each near a major centre in northeastern Ontario. The Haileybury School of Mines is located in the town of Haileybury, overlooking Lake Temiskaming. The James Bay Education Centre is located in Moosonee. The Kapuskasing Campus is located in the city of Kapuskasing. The Kirkland Lake Campus is located in the city of Kirkland Lake, 48 kilometres west of the Quebec border and 600 kilometres north of Toronto. The Porcupine Campus is located on Lake Porcupine, in a suburb of Timmins.

Haileybury School of Mines

At Haileybury, students may choose from a broad range of mining specializations, including mining technology (a broad curriculum integrating geology, mining, and metallurgy), and industrial instrumentation (process measurement and control), as well as business (English and French), office administration (English and French), and college vocational programs.

James Bay Education Centre

The James Bay Education Centre, originally designed as an experiment in frontier schooling, is now emerging as a Native education centre for the peoples of the James and Hudson bays. It contains a gym, a library, workshops, classrooms, a day care centre, and a cafeteria. The centre offers postsecondary programs such as business administration, early childhood education, fine arts, Native counsellor, Native recreation worker, nursing, office administration, and special constable, as well as adult training and continuing education programs.

Kapuskasing Campus

The Kapuskasing Campus offers primarily business postsecondary programs, adult training, and continuing education programs: bilingual office administration, business administration (French and English), nursing (bilingual and English), office administration (French and English). The Kapuskasing Campus is the centre for distance-learning programs.

Kirkland Lake Campus

The campus's emphasis is on technological programs: civil technician and technology, college vocational, computer process control (postdiploma program for electronics technicians), computer science technology, electronics technician and technology, electrical technology, French as a second language, general and business administration, inforamtion systems, mechanical engineering (mine maintenance), mechanical technician and technology, nursing, office administration, and welding engineering technician/technology.

Porcupine Campus

The Porcupine Campus has the most varied program offerings of the campuses, with programs in applied arts, technology, business, and nursing. Program specializations include the following: architectural technician and technology, bilingual office administration, business administration (French and English), child care (French and English), civil engineering, developmental services worker (French and English), early childhood education (French and English), electrical technician (French and English), electronics technician, fine arts and crafts, French as a second language, Native alcoholism and drug abuse counsellor, Native recreation worker, Native social services worker, nursing, nursing assistant (bilingual and English), office administration (medical, legal, executive) (French and English), social services (French and English), and surveying technician and technology. Facilities to accommodate these programs include studios for sculpting, pottery, drawing, and painting; a well-equipped weaving room; a photographic studio and lab; and a day care centre, The Northern Caboose. The Porcupine Campus is also the administrative centre for the college.

Programs Offered

• Arts and Sciences – General and Applied

Three-year diploma
Child and youth worker (French and English).

Two-year diplomas
College vocational, developmental services worker (French and English), early childhood education (French and English), fine arts and crafts, Native alcoholism and drug abuse counsellor, Native recreation worker, Native social services worker, social services worker (French and English).

One-year certificates
General vocational preparatory, Native core program, special constable.

• Business

Three-year diplomas
Business administration (accounting,
general, marketing; options in French ar
English), information systems.

Two-year diplomas
Accounting and marketing, business (accounting), business (French and English), office administration (general, medical, legal, word processing).

One-year certificate
Office administration.

• Health Sciences

Nursing.
Nursing is a two-and-one-half-year prog
at the Kirkland Lake Campus and a thre
year program at the Porcupine,
Kapuskasing, and James Bay Educatior
Centre campuses.

One-year certificate
Nursing assistant.

• Technology

Three-year technology diplomas
Architectural, civil, computer science, ele
cal, electronics, mechanical, mine maint
ance, mining engineering, survey, weldir

Two-year technician diplomas
Architectural, civil, electrical, electronics,
dustrial instrumentation, mechanical, mi
maintenance, mining engineering, surve
welding (inspection).

One-year certificate
Computer process control.

• Alternative Learning

Academic upgrading
Northern offers upgrading programs in b
English and French. For programs, see
CAAT chart at the beginning of this secti
For a general description, see "College
Preparatory Programs for Academic
Upgrading" in the *General Information o*
Colleges of Applied Arts and Technology
section. Contact the college for details.

Adult training
The college offers modularized business
and commerce skill programs that may l
to certification, as well as offering comm
cial refresher and technical skill program
Contact the college for details.

Apprenticeship
For programs, see the CAAT chart at the
beginning of this section. For details, se
the *Apprenticeship* section.

Continuing education
Credit and non-credit courses are offerec
all five campuses and in eight satellite
centres in northeastern Ontario. See
"Continuing Education" in the *General In*
mation on Colleges of Applied Arts and
Technology section and consult the colle
calendar, "Special Programs Division", fc
details.

Management Development
More than 60 courses specifically tailored to meet the professional development needs of management are available through the Special Programs Division. Several of these courses are also available in French. The department provides a consulting and referral service to help identify business and industry needs for training programs at the supervisory level. A brochure on the management development program is available.

Modular Training
This is a co-operative effort between the college and the Apprenticeship Branch of the Ministry of Colleges and Universities. The program centres on the modular training package for stationary engineers, first to fourth class.

Training in Business and Industry
The purpose of this program is to work with employees who wish to be upgraded or retrained on the job to increase their employability and flexibility. Arrangements for registration may be made by management, staff organization, unions, or other groups of employees interested in this type of training. Detailed information is available from the Special Programs Division.

Further Information
Registrar *or* Special Programs Disvision
Porcupine Campus, Northern College
P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211

Student Services Department
Haileybury School of Mines,
Northern College
640 Latchford
Haileybury, Ontario P0J 1K0
Telephone (705) 672-3376

Student Services Department
Kapuskasing Campus
Northern College
3 Aurora Ave.
Kapuskasing, Ontario P5N 1J6
Telephone (705) 335-8504

Student Services Department
James Bay Education Centre
Northern College
P.O. Box 30, First St.
Moosonee, Ontario P0L 1Y0
Telephone (705) 336-2913

Student Services Department
Kirkland Lake Campus, Northern College
140 Government Rd. E.
Kirkland Lake, Ontario P2N 3L8
Telephone (705) 567-9291

St. Clair College of Applied Arts and Technology

Windsor, Chatham

President: A. L. Martin

Enrolment 1989-90

Full-time enrolment	3 820
Part-time registrations	40 633

St. Clair College has centres in Windsor and Chatham. The centres in Windsor are the main or South Campus, housing postsecondary, adult training, English as a second language, apprenticeship, and continuing education programs for both Windsor and Essex County; the Community Career Counselling Services, providing career information and counselling to those seeking jobs; and the Industrial Resource Centre, containing the metal-cutting trades programs. The Thames Campus in Chatham features the developmental services worker program, which is not available in Windsor. Also offered in Chatham are various postsecondary programs, continuing education courses, and adult training programs.

Campus locations:
South Campus
2000 Talbot Rd. W.
Windsor, Ontario
N9A 6S4

Thames Campus
1001 Grand Ave. W.
Chatham, Ontario
N7M 5W4

Community Career Counselling Services
245 Janette Ave.
Windsor, Ontario
N9A 4Z2

Industrial Resource Centre
3600 Rhodes Drive
Windsor, Ontario
N8W 5A4

South Campus, Windsor

- **Arts and Science – General and Applied**

Six-semester programs
Advertising (business), journalism (print), sign language interpreter.

Additional admission requirements: advertising – Grade 12 English and Grade 10 mathematics with at least 60% at the advanced level or 70% at the general level; journalism – Grade 12 English with at least 60% at the advanced level or 70% at the general level; sign language interpreter – successful completion of the sign language communicator program or equivalent, written and oral English skills tests, American sign language tests for expressive and receptive skills.

Four-semester programs
Commercial art, early childhood education, general arts and science, interior design, law and security administration, legal office administration, sign language communicator, travel counsellor.

Additional admission requirements: commercial art – one credit in art or equivalent and portfolio; early childhood education – Grade 12 English with a minimum of 60% at the advanced level or 70% at the general level, courses in social sciences (i.e., family studies, history, etc.) recommended, six courses (including English) at the Grade 12 level or higher (if more than six courses are submitted the best six will be used; if less than six Grade 12 or higher courses are available the best Grade 11 courses will be considered), certificate of good health and immunization records; general arts and science – Grade 12 mathematics recommmended; interior design – credits in art and drafting recommended; law and security administration – Grade 12 English with at least 60% at the advanced level or 70% at the general level, questionnaire; legal assistant – Grade 12 English with at least 60% at the advanced level or 70% at the general level; sign language communicator – Grade 12 English with at least 60% at the advanced level or 70% at the general level, applicants with American language skills may be considered for direct entry or advanced standing; travel counsellor – Grade 12 English with at least 60% at the advanced level or 70% at the general level.

Two-semester program (postdiploma)
Sign language interpreter.

Additional admission requirements: successful completion of sign language communicator program, questionnaire to determine knowledge of the deaf community, grade of B or better in ASL and English.

- **Business**

Six-semester programs
Business administration (accounting, marketing), information systems (computer programmer analyst).

Additional admission requirements: Grade 12 English and Grade 10 mathematics with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics for technology or advanced level mathematics recommended.

Four-semester programs
Business (accounting, information systems – microcomputer systems management, retail management), office administration (executive, medical, word processing).

Additional admission requirements: business – Grade 12 English and Grade 10 mathematics with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics for technology or advanced mathematics recommended; office administration (executive, medical) – for direct entry to year 2, successful completion of the two-semester office administration program, Grade 12 English with at least 60% at the advanced level or 70% at the general level or 45 wpm typing, 60 wpm

Pitman shorthand/shorterhand or Forkner shorthand (shorthand not required for direct entry into office administration – medical); office administration–word processing – Grade 12 English and Grade 10 mathematics with a minimum of 60% at the advanced level or 70% at the general level, 35 wpm typing.

Two-semester program
Office administation (general).
Additional admission requirements: Grade 12 English with at least 60% at the advanced level or 70% at the general level.

• Health Sciences

Nine-semester program (three years)
Child and youth worker (part-time).
Additional admission requirements: child and youth worker – Grade 12 English and Grade 10 mathematics with a minimum of 60% at the advanced level or 70% at the general level, questionnaire.

Six-semester programs
Medical laboratory technology, nursing.
Additional admission requirements: medical laboratory technology – Grade 12 mathematics and English, senior level physics and chemistry, with at least 60% at the advanced level or 70% at the general level (advanced level courses in these subjects strongly recommended), written report following a day of observation in a medical laboratory, senior level biology recommended; nursing – Grade 12 English, Grade 12 mathematics, and two different senior sciences including biology, with at least 60% at the advanced level or 70% at the general level, first aid recommended, CPR recommended, and studies in the metric system recommended, certificate of good health required if accepted into the program.

Four-semester programs
Animal health technician, dental hygiene.
Additional admission requirements: animal health technician – Grade 12 English, Grade 11 mathematics for technology or advanced level mathematics, senior level biology and chemistry with at least 60% at the advanced level or 70% at the general level, questionnaire, experience in veterinary hospital recommended, visit to college to interview faculty and inspect program, interview with a graduate of the program; dental hygiene – applicants must be certified dental assistants or eligible for certification by the Ontario Dental Nurses and Assistants Association (ODNAA). Since this is an oversubscribed program, the following selection process is applied. *CAAT graduates:* applicants will be graded on the basis of their GPA in the dental assistant program (minimum 3.0), and on the basis of the results of a dental comprehensive test, a verbal comprehensive test, and a manual dexterity test; a minimum of one year's work experience in four-handed dentistry is required. Applicants with 24 months or more of work experience will benefit. *Applicants with formal dental assistant education/training outside Ontario CAATs:* applicants will be graded on the basis of the results of a dental comprehensive test, a verbal comprehensive test, and a manual dexterity test (minimum 75%); a minimum of one year's work experience in four-handed dentistry is required; applicants with 24 months or more of work experience will benefit; applicants must submit proof of successful completion of a radiation protection course and proof of ODNAA certification. *Applicants with no formal dental assistant education:* applicants will be graded on the basis of the results of a dental comprehensive test, a verbal comprehensive test, and a manual dexterity test (minimum 75%); applicants must submit proof of five years' work experience in four-handed dentistry, proof of successful completion of a radiation protection course, and proof of ODNAA certification.

Three-semester programs
Ambulance and emergency care, nursing assistant.

Additional admission requirements: ambulance and emergency care – Grade 10 mathematics recommended, applicants with senior level biology, basic cardiac life support course (CPR), current standard first aid certificate, spoken and written fluency in French, and an Ontario class "F" driver's licence will benefit in the selection process, questionnaire, following acceptance into the program, health record, immunization record, licence, and a written report after observational experience of several days in an ambulance service are required (details provided at time of acceptance); nursing assistant – Grades 9 and 10 science and English and Grade 9 mathematics required, senior level biology, first aid certificate, and CPR recommended, certificate of good health required if accepted in the program (September and January intake).

Two-semester programs
Dental assistant, pharmacy assistant.
Additional admission requirements: dental assistant – Grade 12 English and senior level biology with at least 60% at the advanced level or 70% at the general level, questionnaire, day of observation in a dental office (details provided after receipt of application), senior level chemistry and typing recommended; pharmacy assistant – minimum of Grade 12 mathematics, senior level chemistry and biology, written report after a half-day visit to a pharmacy (details provided after receipt of application).

One-semester program
Health care aide.
Additional admission requirements: current standard first aid certificate and basic cardiac life support course (CPR) recommended.

• Technology

Six-semester programs (technology)
Architectural, chemical and environmental engineering, civil engineering, electrical/electronics engineering, mechanical engineering, mechanical engineering (er
gy management).
Additional admission requirements:
architectural, civil – recommend Grade 1
mathematics for technology or advancec
level mathematics, Grade 12 English, se
level physics (students without the abov
may be assigned additional course work
that could extend beyond the normal
academic year, advanced standing for
Grade 13 or OACs may be allowed); che
cal and environmental engineering, elect
cal/electronics engineering, mechanical
engineering, mechanical engineering (er
gy management) – recommend Grade 1
mathematics for technology or advancec
mathematics, Grade 12 English, senior l
physics and chemistry (students without
high school physics will be required to ta
PHO1O, fundamentals of physics, at nig
school during their first semester), direct
entry to year 2 of the chemical and envir
mental engineering program may be
granted to students with an OSSHGD or
OACs or equivalent in English, physics,
chemistry, calculus, functions and relatio
or algebra. Applicants to electrical/
electronics and mechanical with an
OSSHGD or OACs or equivalent in Engl
physics, chemistry, calculus, functions ar
relations, and calculus or algebra may be
given sufficient credits to begin the progr
in semester two (January rather than
September), pending space availability.

Four-semester programs (technician)
Construction engineering (civil), electron
food (service management), furniture
products, interior design, landscape, mot
power, mouldmaking, toolmaking.
Additional admission requirements:
construction engineering (civil), electroni
recommend Grade 12 English and Grad
12 mathematics for technology or advan
mathematics, senior level physics (stude
without senior level physics will be requi
to take PHO1O, fundamentals of physics
night school during their first semester);
niture products – credits in art and shop
recommended, graduates with OSSD/
OSSGD at the basic level will be considered; interior design – credits in art and c
ing recommended; landscape – graduate
with OSSD/OSSGD at the basic level wi
considered; motive power – Grade 12 m
ematics for technology or advanced leve
mathematics required, credits in physics,
chemistry and communications recommended; mouldmaking, toolmaking – Gr
12 mathematics for technology or advan
level mathematics required, blueprint, dr
ing, and machine shop strongly recommended. Students who have completed
Clair's machine shop program or the hig
school linkage machine shop program m
be eligible to receive credit for the first
semester of machine shop.

Three-semester program
Hairstylist/cosmetology.
Additional admission requirements: aptitude test.

Two-semester programs
Furniture products techniques, landscape techniques, machine shop, repairperson electronic equipment.

Additional admission requirements: furniture products techniques – credits in art and shop recommended, graduates with OSSD/OSSGD at the basic level will be considered; machine shop – Grade 12 mathematics for technology or advanced mathematics required, credits in blueprint, drafting, and machine shop strongly recommended; repairperson electronic equipment – Grade 12 mathematics for technology or advanced level mathematics recommended.

Forty-week program
Food preparation (basic and advanced).

Additional admission requirements: OSSD/OSSGD graduates at the basic level will be considered, certificate of good health required if accepted in the program.

Thames Campus, Chatham

• Business

Six-semester program
Business administration.

Additional admission requirements: Grade 12 English with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics for technology or advanced level mathematics, direct entry to year 3 may be granted to applicants with a CAAT business diploma.

Four-semester programs
Business (accounting, information systems, marketing), early childhood education, office administration (executive, medical).

Additional admission requirements: business (accounting, information systems, marketing) – Grade 12 English and Grade 10 mathematics with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics for technology or advanced level mathematics recommended; early childhood education – Grade 12 English with 60% at the advanced level or 70% at the general level, courses in social sciences recommended, six courses (including English) at the Grade 12 level or higher (if more than six courses are submitted the best six will be considered; if less than six Grade 12 courses are submitted the best Grade 11 courses will be used), certificate of good health and immunization record required; office administration (executive, medical) – Grade 12 English with 60% at the advanced level or 70% at the general level, for direct entry to year 2 successful completion of the two-semester office administration (general) program and 45 wpm typing, 60 wpm Pitman shorthand/shorterhand or Forkner shorthand, shorthand not required for direct entry to office administration (medical), for executive option shorthand not required for those taking machine transcription option.

52-week program
Office information administration.

Additional admission requirements: Grade 12 English with at least 60% at the advanced level or 70% at the general level, basic 20 wpm keyboarding skills required for sponsored students.

Two-semester programs
Office administration (general), systems analyst (postdiploma).

Additional admission requirements: office administration (general) – Grade 12 English with at least 60% at the advanced level or 70% at the general level; systems analyst – two-year college business diploma (accounting or computer major) or equivalent, or acceptable business experience, as determined by the program chair.

• Health Sciences

Six-semester programs
Developmental services worker, nursing.

Additional admission requirements: developmental services worker – current standard (basic) first-aid certificate and volunteer work in this field highly recommended; nursing – Grade 12 English, Grade 12 mathematics, and two different senior level sciences, one of which must be biology and the other physics or chemistry with at least 60% at the advanced level or 70% at the general level, first aid, CPR, and studies in the metric system recommended, certificate of good health required if accepted into the program.

Three-semester program
Nursing assistant.
Additional admission requirements: Grades 9 and 10 science and English and Grade 9 mathematics required, senior level biology, first aid certificate, and CPR recommended, certificate of good health required if accepted into the program. August, September, January, and April intakes.

Industrial Resource Centre, Windsor

• Skill Programs

65-week program
Mechanical engineering technician – product design.

Additional admission requirements: Grade 12 English, Grade 12 or advanced level mathematics, senior chemistry and physics.

Four-semester and 64-week non-semestered programs.
Heating refrigeration and air conditioning, power engineering.

Additional admission requirements: heating refrigeration and air conditioning – Grade 12 English, Grade 12 mathematics (preferably for technology or advanced level), senior level physics; power engineering – OSSD/ OSSGD at the general level or mature student status or equivalent, Grade 12 English and Grade 12 mathematics recommended.

48-week programs
Industrial general machinist, industrial maintenance mechanic.

Additional admission requirements: industrial general machinist – recommend four credits in English (one at the Grade 12 level), four credits in mathematics (one at the Grade 12 level, preferably mathematics for technology or advanced level mathematics), and senior level physics.

40-week programs
Machine shop (basic).

Additional admission requirements: Grade 10 mathematics.

• Alternative Learning

Academic upgrading
Courses in academic upgrading are offered at the Windsor and Chatham campuses. For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

Adult training
St. Clair offers skill programs for adults in Windsor and Chatham. Contact the college for further information.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
The college offers over 1200 courses on a variety of subjects at both the Windsor and Chatham campuses, as well as in smaller centres throughout Essex and Kent counties. Courses are offered four times per year, including during the summer. See "Continuing Education" in the lGeneral Information on Colleges of Applied Arts and Technology section and contact the college for details.

Further Information

For additional information please contact
Admissions Office
St. Clair College of Applied Arts and
Technology
2000 Talbot Rd. W.
Windsor, Ontario N9A 6S4
Telephone (519) 972-2727
or
Thames Campus
1001 Grand Ave. W.
Chatham, Ontario N7M 5W4
Telephone (519) 354-9100

St. Lawrence College of Applied Arts and Technology

Brockville, Cornwall, Kingston

President: W. William Cruden

Tri-Campus Enrolment 1989-90

Full-time enrolment	4 312
Part-time registrations	30 075

St. Lawrence College has campuses in Kingston, Brockville, and Cornwall. Each campus offers a wide range of postsecondary diploma porgrams in business, creative arts, health services, social services, and technology. The college also offers several certificate and statement of achievement programs that are generally less than a year in length.

St. Lawrence College, Brockville

Principal: J.M. Butt

• Arts and Science – General and Applied

Four semesters – two calendar years
Child and youth worker, developmental services worker, general arts and science.

• Business

Six semesters – three calendar years
Business administration (options in finance and marketing – common first two semesters, September start and February start to accommodate semestered secondary schools).

Four semesters – two calendar years
Hotel and restaurant management (co-op option).

• Health Sciences

Six semesters – two-and-one-half calendar years
Nursing.

September start and February start to accommodate semestered schools.

Nine semesters
Nursing (part-time).

Additional admission requirements: two different senior science credits including biology, physics, or chemistry at year 3, 4, or 5 at the advanced level; two senior English credits at year 3, 4, or 5 at the advanced level, including one credit at year 4 or 5; one credit in mathematics at year 4 at the general level. The student's physical and mental health must be such that the requirements of the program can be met; medical certificate is required.

Two semesters – one calendar year
Nursing assistant.

• Technology

Six semesters – three calendar years
Business technology – information/communications systems, electrical engineering technology – power systems.

Additional admission requirements: year 4 English and mathematics for technology.

• Short Programs

Basic employment training, basic training for skill development (levels 3 and 4), computer literacy – business and industry, English as a second language, French as a second language, health care aide, home support, registered nurse – management skills, registered nurse – critical care, registered nursing assistant psychiatric nursing, working with the aged – multidiscipline (postcertificate).

• Alternative Learning

Academic Upgrading
See "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Assessment for Credit
ALEC – Assessment of Learning Experience for Credit – life experiences can earn college credits; contact Student Services for details.

Continuing Education
The Brockville Campus offers a variety of credit courses during the evening or day in business, creative arts, developmental education, health science, human studies, technology, and trades areas. Contact the Registrar for details.

Ontario Skills Development Offices
These offices develop and present training for all levels of business and industry anywhere in Ontario.

CEIC Programs
A variety of programs are conducted under the sponsorship of the Canada Employment and Immigration Commission (CEIC). Some of these programs have been listed under the *Short Programs* section above. For complete listings, contact the registrar.

Further Information

For more information, please contact
Registrar
St. Lawrence College, Brockville
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

St. Lawrence College, Cornwall

Principal: Arleen Cain

• Arts and Science – General and Applied

Six semesters – three calendar years
Visual and creative arts – graphic design.

Four semesters – two calendar years
General arts and science.

• Business

Six semesters – three calendar years
Business administration (co-op), commo
first two semesters (options in finance a
information systems management).
Additional admission requirements: se
English at the general or advanced leve
quired, senior mathematics at the advar
level recommended.

Four semesters – two calendar years
Appraisal (common two semesters with
ness and business administration);
business accounting; office administratio
(executive, legal, and general options) (
mon first two semesters).
Additional admission information:
appraisal, business – same as for six-
semester program; office administration
senior English credit at the general or
advanced level, advanced credits may b
granted to those who show proof (to the
satisfaction of the instructor) of basic typ
skill, shorthand, office procedures, acco
ing, or communications.

• Health Sciences

Six semesters – two-and-one-half calen
years
Nursing.
Additional admission requirements: tw
different senior science credits including
ogy, physics, or chemistry at the advanc
level, two senior English credits at the
advanced level, including one credit at y
4 or 5, one credit in mathematics at the
4 general level; where further differentiat
among qualified candidates is necessar
the college will assess each candidate's
probability of success in the program on
vasis of the present level of academic
achievement in communications, math,
science, as determined by college-admi
istered tests and standardized ability tes
There are also health and administrative
requirements. Contact the college for m
information.

Four semesters – two calendar years
Behavioural science technician, law and
security administration.
Additional admission requirements: be
havioural science technician – two senio
English credits, with at least one a year
year 5 credit; where further differentiatio
among qualified candidates is necessar
the college will assess each candidate's
probability of success in the program on
basis of the following, as approved by th
academic council: credits already earne
toward program completion, present leve
academic achievement generally, prese
level of academic achievement in desig-
nated prerequisitie subject area, standar
ized testing, and related practical/life exp
ence; law and security administration –
applicant's health and physical fitness m

enable the applicant to complete the program.

Two semesters/36 weeks
Nursing assistant.

One semester
Health care aide (16 weeks), home support (12 weeks).
Additional admission requirements: health care aide – certificate of education (year 2, 14 credits) at the general or advanced level, recommended that applicants be employed as aides in a health agency, have clinical experience and employer's recommendation; home support – reading, writing, and math ability will be assessed.

• Technology

Six semesters – three calendar years
Electronics engineering technology, marine engineering technology, mechanical engineering technology, microcomputer engineering technology; co-operative education available in microcomputer, marine, and electronics engineering technology.

Four semesters – two calendar years/64 weeks
Process control and electronics engineering technician.
Additional admission requirements: six semesters – year 4 mathematics for technology or equivalent, recommended background of mathematics and English at the advanced level and a senior science (physics preferred) or a senior technological studies credit at the general or advanced level; four semesters – recommended background of senior science credit (physics preferred), a senior technological studies credit at the general level.

Short Programs
Carpenter, fabricating and welding, industrial maintenance mechanic, machine shop, motor vehicle mechanic, women into trades and technology (WITT).

• Alternative Learning

TRAC
A modularized, self-paced learning system for fabricating and welding, industrial maintenance, and machine shop. Monthly entry.

Career basics
General arts and science (four semesters); short programs: career planning for women, basic employment training.

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

Pre-employment programs
Contact the college for information.

Further Information

For more information, please contact
Admissions Office
St. Lawrence College, Cornwall
Windmill Point
Cornwall, Ontario K6H 4Z1
Telephone (613) 933-6080 ext. 2178

St. Lawrence College, Kingston

Principal: G.K. Welch

• Arts and Science – General and Applied

Six semesters – three calendar years
Animal care technology, behavioural science technology, child care worker, fashion merchandising, visual and creative arts (fashion design), visual and creative arts (graphic design).
Additional admission requirements: animal care technology – year 4 advanced credits in mathematics, chemistry, and English, plus one of either biology or physics at the advanced level in year 3 or higher.

Four semesters – two calendar years
Correctional worker, early childhood education, general arts and science, visual and creative arts – fine arts.

• Business

Six semesters – three calendar years
Business administration (options in data processing, finance, human resources management, and marketing), fashion merchandising.

Additional admission requirements: senior English credit at the general or advanced level, year 4 general level mathematics or equivalent recommended; business administration (data processing), finance and marketing – year 4 advanced level mathematics and English recommended.

Five semesters – two calendar years
Recreational marine management.

Four semesters – two calendar years
Business (options in advertising and public relations, accounting, marketing, legal assistant, human resources management).
Additional admission requirements: business (advertising and public relations, legal assistant) – year 4 general level English.

Two semesters – one calendar year
Office administration (legal, medical, and general options).
Additional admission requirements: senior English credit at the general or advanced level.

• Health Sciences

Eight semesters – three years
Medical laboratory technology.
Additional admission requirements: credits for mathematics, chemistry, and English at the advanced level in year 4 or better; credit for biology or physics at the advanced level in year 3 or better.

Six semesters – two-and-a-half calendar years
Nursing.
Additional admission requirements: two senior science credits including biology, physics, or chemistry at year 3, 4, or 5 at the advanced level; two senior English credits at year 3, 4, or 5 at the advanced level, including one credit at year 4 or 5; one credit in mathematics at year 4 at the general level.

Three semesters – one calendar year
Nursing assistant.

• Technology

Six semesters – three calendar years
Civil engineering technology, computer engineering technology, electronics engineering technology, instrumentation engineering technology (industrial), mechanical engineering technology.
Additional admission requirements: year 4 general level mathematics and English, year 3 science credit; computer engineering technology – year 4 advanced level mathematics.

Four semesters – two calendar years/64 weeks
Electronics engineering technician, instrumentation engineering technician (industrial).
Additional admission requirements: year 4 general level mathematics and English, year 3 science credit.

• Short Programs

Short programs offered include: basic employment training, basic food preparation, basic training for skill development – levels 2 to 4, cook apprentice, English as a second language, health care aide, industrial maintenance mechanic, life skills coach, machine shop, registered nursing assistant – psychiatric nursing.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
St. Lawrence College, Kingston offers a wide range of day and evening courses, including courses leading to college diplomas or certificates, advanced courses in technical and business fields for professional associations, and general interest courses, both leisure and career related. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

Pre-employment programs
Consult the college calendar for details.

Community Learning Centre
Individualized programs of study are available in a wide range of careers in business and technology. Courses cover specific trade materials: building systems management, stationary engineering, industrial maintenance mechanics, electrical/electronics, drafting, welding, mathematics and physics upgrading, and first-year college courses in mathematics, physics, mechanics, drafting, electronics, computing, and accounting. The format is take-home study materials, with tutorial assistance and testing at the college. Students can start any day of the week and progress at their own pace. A tutor is available to give individual help as required.

Further Information

For more information, please contact
Registrar
St. Lawrence College
King & Portsmouth
Kingston, Ontario K7L 5A6
Telephone (613) 544-5400

Sault College of Applied Arts and Technology

Sault Ste. Marie

President: P.R. Doyle

Enrolment 1989-90

Full-time enrolment	1 720
Part-time registrations	9722

Sault College's concern for the natural resources of the environment is reflected in its college programs. The college also has strong technology, business, human sciences, teacher education, and health sciences programs covering wide areas of interest.

The Continuing Education departments of the college offer a wide range of courses, not only at the Sault Ste. Marie Campus, but also at the college's campuses in Elliot Lake, Wawa, and Chapleau. Through these campuses, many other locations throughout the District of Algoma and state of Michigan receive programming.

Campus locations:

Sault College
Main Campus
443 Northern Ave.
Sault Ste. Marie,
Ontario
P6A 5L3
(705) 949-2050
Toll-free 1-800-461-2260

North Algoma
Campus
3 Maple St.
P.O. Box 1490
Wawa, Ontario
T0S 1K0
(705) 856-2347

Elliot Lake and North
Shore Campus
1 College Place
Elliot Lake, Ontario
P5A 3G9
(705) 848-2285

Chapleau Campus
34 Birch Street
P.O. Box 787
Chapleau, Ontario
P0M 1K0

Programs Offered

• Arts and General Education

Three-year diploma
Advertising art and graphic design.

Additional admission requirements: applicants will be ranked according to a two-step process, art evaluation and a short essay.

Two-year diplomas
General arts and science (liberal studies), library clerk, Native community worker.

One-year certificates
Cosmetic sales, hairstyling.

One or two semesters
College preparatory, career explorations in human services, general arts and science, vocational skills.

• Business and Hospitality

Three-year diplomas
Accounting, programmer analyst, tourism marketing management.

Additional admission requirements:
programmer analyst – computer progra
mer two-year diploma with a GPA of at
2.5.

Two-year diplomas
Accounting, advertising management, c
puter programmer, finance and sales
management, hotel and restaurant man
ment, office administration (executive a
legal).
Additional admission requirements:
Grade 12 mathematics recommended f
accounting and computer programmer.

One-year certificates
Chef training, office procedures/retail sa

• Health Sciences

Three-year diploma
Nursing.
Additional admission requirements: G
12 general level mathematics, as well a
two senior sciences, one of which must
chemistry, and the other one of the follo
ing: biology, physics, human anatomy, c
physiology. At least one of the science
credits must be at the advanced level.
Recommendations: overall academic
standing of applicants, based on an
average of Grade 12 English and the tw
senior sciences, should be more than 7
if the applicant has subjects at the gene
level and 60% if the applicant has subje
at the advanced level.
Prior to admission, students should be
come knowledgeable about nursing thr
some exposure to nurses and the healt
care field, such as volunteer work, care
day experiences with nurses, or other
similar experiences.
Procedures: qualified applicants will
required to attend an information sessio
take pretests, and meet certain health a
other requirements. Contact registrar fo
details.

One-year certificate
Nursing assistant.
Procedure: qualified applicants will be r
quired to attend an information session,
take pretests, and meet certain health a
other requirements. Contact the registra
details.

• Health Sciences and Teacher Educa

Three-year diploma
Child and youth worker.

Two-year diplomas
Correctional worker, developmental ser-
vices worker, early childhood education
and security, recreation leadership, teac
aide, teacher of adults.
Additional admission requiremnts: info
tion session.

One-year certificate
Enforcement services preparation.

Additional admission requirements: Grade 11 technical mathematics, capability for vigorous physical activity.

• Technology

Three-year diplomas (engineering technology)
Architectural, aviation (flight), civil, computer, electrical, electronic, mechanical.

Additional admission requirements: Grade 12 technical mathematics at the general level (advanced mathematics strongly recommended); aviation – Grade 12 general level mathematics, information session, tests (contact registrar).

Three-year diplomas (science and natural resources technology co-operative education programs)
Forestry (fish and wildlife), environmental engineering (co-op), forest management (co-op), forestry (parks and recreation), water resources engineering (co-op), pulp and paper engineering (co-op).

Additional admission requirements: forestry – Grade 11 general level technical mathematics.

Recommendations: completion of Grade 11 or 12 general level biology and physics and advanced level chemistry and mathematics are strongly recommended; pulp and paper engineering, water resources engineering – Grade 12 general level technical mathematics and chemistry.

Two-year diplomas (engineering technician)
Architectural (drafting), civil, construction, electrical, electronic, heavy-equipment diesel, instrumentation, mechanical, mechanical (drafting), mechanical (machining).

Additional admission requirements: electrical, electronic, mechanical, mechanical (drafting) – Grade 12 general level technical mathematics, advanced mathematics recommended.

Two-year diplomas (science and natural resources technician co-operative education programs)
Environmental engineering technician, forestry technician, geology engineering technician, taxidermy (co-op).

Additional admission requirements: Grade 11 general level technical mathematics.

One-year certificates (techniques)
Heavy equipment diesel, machine shop, pulp and papermaking operations.

Special admission requirements: Grade 10 general level technical mathematics.

• Postdiploma Programs
Alcohol and drug dependencies intervention counsellor.

Food and beverage management.

Admission requirements: completion of a chef training program with minimum G.P.A. of 2.5, or equivalent training/experience.

Infant toddler care and education.

Admission requirements: graduation from an approved early childhood education program. Applicants with a diploma or degree in a related field will be considered on an individual basis.

Tourism marketing management.

Admission requirements: graduation from advertising management, finance and sales management, food and beverage management, or hotel and restaurant management programs.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

The Learning Assistance Centre offers computer-aided learning, controlled reading machines, and tutorial assistance to students.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Sault offers a wide variety of credit and noncredit courses, supervisory and management courses, and industrial training courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

Futures
Futures provides skills training and work experience to help young people 16-24 years of age prepare for permanent employment. An off-campus office (705)942-7003 handles inquiries.

Retraining
College preparatory levels and skill prerequisites are available through upgrading or academic development studies for students who lack specific prerequisites. Contact the college for further information.

Further Information

Additional information is available by contacting

Liaison/Placement Officers
Suzanne Dunn, Mary Ellen Tomie

Financial Aid Officer
Dorothy Vena

Co-operative Education Liaison Officers
Lynda Bowyer, Jeff Cartwright

Mr. Jim Erb, Registrar
Sault College of Applied Arts and Technology
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 759-6700
Toll-free 1-800-461-2260

Seneca College of Applied Arts and Technology

North York, York Region

President: W.R. McCutcheon

Enrolment 1989-90

Full-time enrolment	9 227
Part-time registrations	84 846

Seneca College is a multi-campus institution serving Metropolitan Toronto, the City of North York, and the Regional Municipality of York, north of the metropolitan area.

Campus locations:

Newnham Campus
1750 Finch Ave. E.
North York, Ontario
M2J 2X5

Sheppard Campus
43 Sheppard Ave. E.
North York, Ontario
M2N 2Z8

King Campus
Dufferin St. N.
R.R. 3
King City, Ontario
L0G 1K0

Dufferin Campus
1000 Finch Ave. W.
Downsview, Ontario
M3J 2V5

Glen Park Campus
100 Dalemount Ave.
North York, Ontario
M6B 3C9

Markham Office
8525 McCowan Rd.
Unit 105
Markham, Ontario
L3P 5E5

Newmarket Office
112 Yonge St.
Newmarket, Ontario
L3Y 6Y9

Caledonia Campus
1200 Lawrence Ave. W.
Toronto, Ontario
M6A 1E3

Jane Campus
21 Beverly Hills Dr.
Downsview, Ontario
M3L 1A2

Yorkdale Campus
2999 Dufferin St.
Toronto, Ontario
M6B 3T4

Leslie Campus
1255 Sheppard
Ave. E.
North York, Ontario
M2K 1E2

Fairmeadow Campus
17 Fairmeadow Ave.
North York, Ontario
M2P 1W6

Futures
10720 Yonge St.
Suite 222
Richmond Hill,
Ontario
L4C 3E1

School of Communication Arts
1124 Finch Ave. W.
North York, Ontario
M2N 5P1

Vanier Annex
3000 Don Mills Rd.
North York, Ontario
M2J 5P1

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Design arts, fashion arts, fashion (retail merchandising).

Additional admission requirements: Grade 12 English, group orientation session, questionnaire, and portfolio/testing; design arts – art or drafting credits suggested; fashion arts – Grade 11 or 12 art, dressmaking skills desirable; fashion (retail merchandising) – Grade 12 English, Grade 12 mathematics, computer studies, accounting and economics credits, work experience desirable.

Two-year diplomas
Audio-visual techniques, broadcasting (radio and TV), coaching techniques (gymnastics, figure skating), computer graphics, cosmetics techniques, creative advertising/broadcasting, early childhood education, esthetician, fashion merchandising, golf course technician, government administration, illustration – technical, law enforcement, legal assistant, library techniques, outdoor recreation technician, parks operations and services, real property administration, recreation facilities management, social service worker, social service worker (gerontology), visual merchandising arts.

Additional admission requirements: Grade 12 English, group orientation session, questionnaire/testing; audio-visual techniques – senior level (Grade 11 or 12) mathematics, any art, photography, graphics, theatre, electronics, and/or computer credits suggested; broadcasting (radio and TV) – senior level (Grade 11 or 12) mathematics; coaching techniques – satisfactory medical, practical test to demonstrate competence in figure skating; computer graphics, illustration technical – drafting, computer science and senior level (Grade 11 or 12) science and mathematics credit suggested; cosmetics – Grade 10 mathematics; creative advertising/broadcasting – advanced level credits in English, keyboarding skills, any art and/or computer science credits suggested; early childhood education – current medical report and report of chest X-ray or tuberculin test; esthetician – Grade 10 biology; fashion merchandising – Grade 11 mathematics; government administration – Grade 12 mathematics required, any computer studies credit and keyboarding skills recommended; outdoor recreation technician – standard first aid certificate; real property – Grade 12 mathematics, any computer studies credit, keyboarding skills, and accounting credits recommended; visual merchandising – Grade 11 or 12 art desirable.

One- to three-year program
College vocational program.

Special admission requirements: candidates must have successfully completed OSSD basic level credits or a high school vocational or occupational program, be recommended by the principal or designate; minimum age 17.

One-year certificates
Arts administration, cosmetics, day care assistant, flight services, harness horse industry operations (standard bred), recreation resource mangagement, regulatory law administration, retail florist.

Additional admission requirements: arts administration – postsecondary diploma or degree or five years' business experience; cosmetics – Grade 12 English required, Grade 10 mathematics for business and consumers recommended, group orientation session, questionnaire/testing; day care assistant – Grade 12 English, current medical report, chest X-ray, orientation session, questionnaire; flight services – Grade 12 French or OSIS equivalent; harness horse industry – work experience with horses desirable; regulatory law – university degree or college diploma or mature student with at least three years' related experience; retail florist – Grade 12 English, questionnaire, orientation session.

• Business

Three-year diplomas
Accounting and finance, business administration, business and computer systems, computer programming and analysis (co-op and electronic data processing – auditing options are available), international business, international traffic and customs administration, marketing administration, small business administration, tourist industry administration.

Additional admission requirements: Grade 12 English, Grade 12 mathematics; tourist industry administration – questionnaire, orientation session.

Two-year diplomas
Accounting, computer programming and operating, general business, international traffic and customs assistant, marketing, office administration (bilingual, executive, legal,medical), records and information management, small business management, tourism studies.

Additional admission requirements: Grade 12 English; accounting, computer programming and operating, general business, marketing, small business management, tourism studies – Grade 12 mathematics; office administration (bilingual) – Grade 12 French as a second language or work experience and fluency in French; records information management – orientation session, questionnaire.

One-year certificates
Accounting clerk (microcomputer), general dicta-typist, human resources management, international business management, sales representative.

Additional admission requirements: Grade 12 English; accounting clerk (microcomputer) – Grade 12 mathematics, Grade 12 English; human resources management, international business management, sales representative – accredited university degree or three-year college diploma or mature student with three to five years' work experience.

• Health Sciences

Three-year diploma
Nursing.
Upon successful completion of the exar
tion set by the College of Nurses of Ont
this program leads to certification as a
registered nurse.
Additional admission requirements: m
mum of 65% in all of the following: Grac
mathematics, Grade 12 English, Grade
or 12 biology, either Grade 11 or 12
chemistry or physics; group orientation
sion, testing, certificate in standard first

One-year diploma
Dental hygiene.
Additional admission requirements: co
lege dental assistant certificate, or
equivalent as determined by the college
Work experience is a major weighting fa
in the admission/selection procedure. C
lege testing, current certification in basic
CPR, and successful completion of a co
in radiation safety approved by the HAR
commission required.

One-year certificate
Dental assisting.
Additional admission requirements: at
least 65% in each of the following: Grad
English, testing, Grade 11 or 12 biology,
Grade 11 or 12 chemistry or physics, Gr
12 mathematics, group orientation sessi
testing, current certificates in standard fi
aid and basic CPR, 30 wpm typing skills

Animal health technician.
Additional admission requirements: Gr
12 English, Grade 12 mathematics for te
nology or advanced mathematics, Grade
or 12 chemistry and biology, questionna
group orientation session, pre-tests.

• Technology

Three-year diplomas (technology)
Aviation and flight (eight continuous
semesters over three years).
Additional admission requirements: Gr
12 English, Grade 12 advanced level ma
matics, Grade 11 or 12 physics and
chemistry, college mathematics test, me
cal fitness as defined by the college
(Transport Canada Standards). Candida
should request detailed information conc
ing entrance requirements.

Biological research, building operations
management, chemical (co-op), chemica
(pharmaceutical) (co-op), civil engineeri
(co-op) (marine option), computer engine
ing(co-op), electronics engineering (optic
in communications, power and control), f
protection, laboratory, manufacturing eng
eering, mechanical engineering (option i
nuclear power), resources engineering (
op, option in marine).
Additional admission requirements: at
least 60% in Grade 12 mathematics for t
nology or Grade 12 advanced mathemat

Grade 12 English; biological research – Grade 11 or 12 chemistry and biology desirable; chemical – Grade 11 or 12 chemistry desirable; chemical (pharmaceutical) – Grade 11 or 12 chemistry and Grade 11 or 12 biology desirable. laboratory – Grade 11 or 12 chemistry and Grade 11 or 12 biology desirable.

Two-year diplomas
Biological chemical technician, civil engineering, electronics engineering (communications, computers, and avionics options), electrophotographic systems, fire protection, mechanical engineering (NC/CNC programmer and manufacturing option), resources engineering.

Additional admission requirements: Grade 12 English, Grade 12 mathematics.

One-year certificate
Electron microscopy, precision machining, underwater skills.

Additional admission requirements: Grade 12 mathematics, Grade 12 English; electron microscopy – B.Sc. or higher university degree, an appropriate college diploma, or registered technologist diploma; precision machining – Grade 12 mathematics, machine shop and drafting desirable; underwater skills – Grade 11 mathematics for technology or equivalent or Grade 11 advanced mathematics, Grade 11 or 12 physics, group orientation session, sports scuba diving certificate from approved organization, questionnaire, first aid certificate, successful completion of approved commercial-diving medical before beginning program, testing.

•English and Liberal Studies

Two-year program
General arts and science.

Special admission requirements: senior level English credit.

One-year program
Corporate communications.

Special admission requirements: accredited university degree or college diploma or mature student with five years' related work experience.

•Alternative Learning

Continuing education
Diploma and certificate level study, vocational subjects, special interest subjects, and college preparatory courses are offered. For an up-to-date list of courses, consult the part-time studies calendar. Also see "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section for a general description.

Academic upgrading/college preparatory programs
For students wishing to register in postsecondary programs but who do not have the OSSD/OSSGD, academic upgrading programs are offered at the King Campus. Students must be at least 19 years of age on or before the first day of classes.

The Centre for Independent Learning (C.I.L.)
43 Sheppard Avenue East,
North York, Ontario M2N 2Z8.

The Centre for Independent Learning, located on the Sheppard campus, is designed to provide postsecondary educational opportunities to those people whose work or personal commitments make it impossible to attend regularly scheduled classes on campus. As well, the flexible, self-paced format of the centre's courses allows the student to complete required study objectives in a shorter or longer period of time than the traditional semester. Small group seminars, individual tutorials, and independent work assignments replace the formal scheduled classroom lectures, which can be taken during the day and/or evening, including Saturday mornings.

The following full-time postsecondary programs are offered through the C.I.L.: business administration, computer studies, general business.

Skills development programs
Basic employment training, basic job-readiness training, college preparatory program/academic upgrading, computer numerical control programmer, electronics (option in digital electronics), English as a second language, farrier, Futures, health care aide, industrial maintenance mechanic, machine shop, office system operation, Ontario basic skills, redirection through education, residential construction co-ordinator, underwater skills, women into trades and technology, working skills for women.

Admission requirements: mature student status, age 19 or over on the first day of classes; in some programs an OSSD is required. Refer to the college program handbook for full details. Each potential student is given functional tests by the college to determine the applicant's aptitude and ability for the desired program of instruction.

Further Information

Additional information is available by contacting the college (see *Campus locations* for addresses):

Newnham Campus
Registrar's Office
Telephone (416) 491-5050

King Campus
Admissions Office
Telephone (416) 833-3333 (calling from Metro Toronto or King City)
Toll-free 1-800-263-2060 (calling outside Metro Toronto or King City)

Sheppard Campus
Admissions Office
Telephone (416) 491-5050 (days), 491-5054 (evenings)

Markham Office
Admissions Office
Telephone (416) 491-5050

Leslie Campus
Student Services Office
Telephone (416) 491-5050

Yorkdale Campus
Registrar's Office
Telephone (416) 491-5050

Jane Campus
Telephone (416) 491-5050

Glen Park Campus
Telephone (416) 491-5050

Dufferin Campus
Telephone (416) 491-5050

Newmarket Office
Telephone (416) 898-6199

Caledonia Campus
Telephone (416) 491-5050

School of Communication Arts
Telephone (416) 491-5050

Sheridan College of Applied Arts and Technology

Oakville, Brampton, Burlington, Milton, Mississauga

President: Mary E. Hofstetter

Enrolment 1989-90

Full-time enrolment	6 966
Part-time registrations	70 859

Sheridan College offers a number of programs with a co-operative education component, which allows students to alternate academic terms and practical experience. The School of Crafts and Design is the largest school in Ontario devoted to crafts education, and the Heavy Equipment School in Milton has developed one of the best-equipped heavy-equipment training facilities in North America.

Campus locations:

Oakville Main Campus
1430 Trafalgar Rd.
Oakville, Ontario
L6H 2L1

Brampton Campus
McLaughlin Rd.
Box 7500
Brampton, Ontario
L6V 1G6

Burlington Campus
3055 New St.
Burlington, Ontario
L7N 1M6

Credit Valley Campus
Faculty of Health Sciences
2186 Hurontario St.
Mississauga, Ont.
L5B 1M9

Mississauga Campus
100 Dundas St. W.
Mississauga, Ontario
L5B 1H3

Milton Campus
Heavy Equipment School
R.R. 3
Milton, Ontario
L9T 2X7

Port Street Campus
1 Port St. E.
Mississauga, Ontario
L5G 4N1

Queen Elizabeth Campus
178 South Service Rd. E.
Oakville, Ontario
L6J 2X5

Argus Road Campus
572 Argus Rd.
Oakville, Ontario
L6J 3J3

Training and Development Centre
100 Wilkinson Road
Unit 5-8
Brampton, Ontario
L6T 4Y9

Dorval Campus
700 Dorval Drive
Suite 200
Oakville, Ontario
L6K 3B3

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• Arts and Science – General and Applied

Three-year diplomas
Sign-language interpreter (option to graduate after two years and receive a sign-language communicator diploma), visual arts – illustration (interpretive and technical).

Additional admission requirements: sign-language interpreter – two senior English, one senior social science, testing in English, questionnaire, information session, applicants with previous postsecondary education and/or facility in American sign-language may apply for advanced standing; visual arts – questionnaire, portfolio.

Two-year diplomas
Correctional worker, early childhood education, general arts and science (co-op) (September and January admission), general arts and science (liberal studies), law and security administration (police education, loss prevention management (co-op), September and January admission), pre-health sciences (September and January admission), social service worker.

Additional admission requirements: English testing, questionnaire, information session.

• Business and Office Administration

Three-year diplomas
Accounting and marketing (co-op), business administration (accounting, finance, general, human resource management, marketing options). All options have a common first year; accounting and marketing have a
co-op mode available.

Additional admission requirements: Grade 12 English required, Grade 12 mathematics recommended.

Two-year diplomas
Business (accounting (co-op option), finance, marketing (co-op option), general, human resource management options), office administration (information systems, legal, medical options), records and information management.

Additional admission requirements: business – Grade 12 English required, Grade 12 mathematics recommended, information session; office administration – Grade 12 English, questionnaire, information session.

One-year certificate
Office administration (general).

Additional admission requirements: Grade 12 English, questionnaire, information session.

• Computer Studies

Three-year diplomas
Computer science technology (co-op), systems analyst.

Additional admission requirements: systems analyst – Grade 12 English and mathematics; computer science technol (co-op) – Grade 12 English and technica mathematics and chemistry or Grade 11 physics. Direct entry to semester 2 may granted to computer science technology applicants with 60% in two OAC credits including mathematics and one science. Direct entry to semester 3 may be grante to applicants who have 60% in four OAC credits including two mathematics and o science or three mathematics.

• Hospitality

Two-year diplomas
Hotel and restaurant management.

Additional admission requirements: Gr 12 English, Grade 12 mathematics recom mended, questionnaire, information session. Refer to college calendar for furthe information.

• Technology

Three-year diplomas (technology)
Architectural (design) (co-op), engineerin (chemical (co-op), civil (co-op), electronic (co-op)), mechanical (co-op), mechanical (design and drafting) (co-op).

Additional admission requirements: Gra 12 English and mathematics for technolo engineering (chemical, civil, electronics, mechanical) – senior level science, chemistry or physics recommended; arch tectural technology (design), mechanical engineering (design and drafting) – senio level physics; applicants with 60% in desi nated OAC or Grade 13 credits, related work experience, and/or credits from othe postsecondary programs may be eligible advanced standing in some courses. Che college calendar for details.

Two-year diplomas (technician)
Architectural (drafting) (co-op), chemical (laboratory) (co-op), civil engineering (co-op), electronics engineering microcomput mechanical engineering (co-op), mechanical engineering (drafting) (co-op).

Additional admission requirements: che cal (laboratory) – Grade 12 English and technical mathematics and chemistry or physics; architectural (drafting), civil engineering, electronics engineering, mechanic engineering, mechanical engineering (dra ing) – Grade 12 technical mathematics, secondary school drafting course recommended for architectural (drafting).

One-year certificate
Animal care.

Additional admission requirements: animal care – Grade 12 English, Grade 11 or 12 chemistry or biology.

Special program
Electronic engineering technician (microcomputer option) provides the student with the skills to lay out and produce printed circuit boards, logically troubleshoot a wide range of circuits and systems, and operate modern test equipment.

Oakville Campus

• Arts and Science – General and Applied

Two-year diplomas
Advertising, early childhood education year 2 options (Montessori, computers in ECE, infant and toddler care, special needs), general arts and science (liberal studies) (September and January admission), human services administration, library techniques, social service worker, travel and tourism.

Additional admission requirements: advertising – Grade 12 advanced English, information session; library techniques – above-average English and oral expression; all applicants to applied arts programs must complete a questionnaire and attend an information session.

One-year (postdiploma) certificate
Courseware design and production.

Additional admission requirements: postsecondary degree or diploma or two years' documented teaching experience at a community college or university and one year's postsecondary credits; or four years' documented industrial training leadership experience and one year's postsecondary credits.

One-year (postbasic) certificates
Applied research, educational assistant.

Additional admission requirements: applied research – one year's postsecondary credits or related work experience; educational assistant – one year of college or university education, majority of credits in health, social, or behavioural science subject areas and some endorsed experience working with exceptional people, or current employment in a helping role with exceptional clients.

One-semester (postbasic) certificate
Developmental disabilities worker.

Additional admission requirements: a diploma or degree in a related social/health science program combined with practical experience in this field, or work in an agency that provides programs for the developmentally handicapped.

• Health Sciences

Two-year diplomas
Sports injury management.

Additional admission requirements: Grade 12 English, Grade 10, 11, or 12 biology, interview, questionnaire, English test.

• Music Theatre

Three-year diploma
Theatre arts (performance).

Additional admission requirements: audition (see college calendar) and interview.

Two-year diploma
Theatre arts (technical production).

Additional admission requirements: information session, portfolio, résumé of past theatrical experience.

• Media Arts

Two-year diplomas
Journalism (print), media arts (production), media arts (writing elective).

Additional admission requirements: journalism (print) – Grade 12 English and above-average oral communication skills, information session, interview, questionnaire, for direct entry for year 2 consult college calendar; media arts (production) – questionnaire, information session, interview, successful completion of media fundamentals or related work experience; media arts (writing elective) – excellent communication skills, questionnaire, information session, portfolio.

Special program
Media fundamentals is a discovery year, during which students are taught the basics of media production required for admission to the media arts (production) program.

• Fashion and Merchandising Arts

Two-year diplomas
Cosmetic techniques and management, esthetician, fashion technique and design (knit and clothing options), retail management, visual merchandising arts.

Additional admission requirements: cosmetic techniques and management – Grade 12 English, Grade 12 mathematics recommended, information session, questionnaire; esthetician – Grade 10 biology, information session, questionnaire; fashion technique and design – portfolio of three fashion drawings, creative ability and a sewing background desirable, information session, questionnaire; retail management – Grade 12 English, Grade 12 mathematics recommended, information session, questionnaire; visual merchandising – an art course recommended, questionnaire, information session.

One-year program
Fashion sales and modelling.

Additional admission requirements: Grade 12 English and mathematics recommended, information session, questionnaire.

Special programs
The esthetician program trains skin-care specialists, who often work closely with medical experts such as dermatologists and cosmetic surgeons and who can recognize the conditions under which a client should be referred to a doctor. Note that this program should be distinguished from a cosmetology or cosmetic sales program.

Visual merchandising specialists promote store sales through window and store displays. Students gain experience by working freelance for retailers and fashion-show sets and trade-booth design.

• Art, Craft, and Design

Three-year diploma (or four-year specialist co-operative degree)
Art and art history, a three-year major or four-year specialist co-operative degree program between Sheridan College and Erindale College (University of Toronto), provides students with academic background and practical training in the visual arts. Graduates receive a B.A. from Erindale (completion of ten credits) and a diploma in art and art history (five credits) from Sheridan. In order for the student to be eligible for a Type A certificate (Faculty of Education), a four-year degree with a specialist program in fine art (studio) is available.

Additional admission requirements: applicants must submit separate applications to both Sheridan and Erindale, register at both institutions, and meet Erindale College's admission requirements, including acceptable OAC credits.

Three-year diplomas
Animation, craft and design (ceramics, fabrics, furniture, glass), graphic design.

Additional admission requirements: formal training in art and design, portfolio, questionnaire; crafts and design – those with past craft education and/or experience may be considered for direct entry for year 2; see college calendar for details.

Two-year diploma
Applied photography.

Additional admission requirements: information session.

One-year certificate
Art fundamentals.
Art fundamentals provides students with a foundation in art and design and an opportunity for them to develop their skills and techniques by exposing them to a number of areas in the arts and crafts field.

One-year certificate (postdiploma)
Computer animation, computer graphics.

These are one-year programs for graduates of a postsecondary art or design program of at least three years' duration or those with four years of related professional experience. Résumé and portfolio required. Contact the continuing education department for information on summer programs available from May to August.

Special programs
Art and art history, summer school of animation, summer school of computer graphics.

Art and art history, a three-year major or four-year specialist co-operative degree program between Sheridan College and Erindale College (University of Toronto), provides students with academic background and practical training in the visual arts. Summer school of animation and summer school of computer graphics are 14-week courses offered from May to mid-August each year. Contact the continuing education department at (416) 842-8800 for more information.

• Business and Office Administration

Three-year diplomas
Accounting and marketing (co-op), business administration, business administration (accounting, corporate administration, finance, marketing). All options have a common first year.

Additional admission requirements: Grade 12 English required, Grade 12 mathematics and keyboarding recommended. Successful completion of a pretest may exempt a student from a related year 1 course.

Two-year diplomas
Business (accounting and marketing, and transportation and distribution management options), office administration (executive, information systems, legal, medical options).

Additional admission requirements: Grade 12 English; business – Grade 12 mathematics and keyboarding recommended; office administration – information session, questionnaire.

One-year certificate
Office administration (general).

Additional admission requirements: questionnaire, information session.

One-year (postdiploma) certificate
Integrated office systems.

Additional admission requirements: postsecondary diploma or degree or three years' business experience, at least two years of which are at a supervisory level, questionnaire.

• Computer Studies

Three-year diplomas
Business computer systems (co-op option).

Additional admission requirements: Grade 12 English and mathematics; consult college calendar for requirements for direct entry into year 2.

Two-year diplomas
Electronic data processing/computer programmer, microcomputer management.

Additional admission requirements: Grade 12 mathematics and English.

One-year (postdiploma) certificate
Telecommunications management.

Additional admission requirements: a degree or diploma in a related discipline, or a minimum of two years' work experience.

One-semester certificate
Advanced software applications.

Additional admission requirements: postsecondary diploma or degree or 2 years' documented program-related experience.

Credit Valley Campus

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: Grade 12 technical mathematics and English, and two of chemistry, physics, or biology at the senior level. Selection procedures involve a questionnaire, information session, and testing in mathematics and English. Achievement levels (grades) earned in the prerequisite courses will be "factored" into the applicant's admission profile.

One-year certificate
Nursing assistant.

Additional admission requirements: Grade 12 English or equivalent, testing required in English and mathematics, questionnaire, information session, program available to students on a fee-paying basis or through sponsorship by the Canada Employment and Immigration Commission. Contact a Canada Employment Centre for more information.

Milton Campus

• Skills Development

Two-year diploma
Heavy-equipment technician (construction).

Additional admission requirements: Grade 10 mathematics, questionnaire.

• Alternative Learning

Academic Upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section. Contact the Skills Development/Apprenticeship Division at the college for further information.

Continuing Education
The Continuing Education Division offers a wide variety of part-time day and evening credit and non-credit courses as well as supervisory and management courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar, continuing education section, for details.

Co-operative Education
Sheridan College operates co-operative programs that offer a combination of supervised paid-work experience related to programs of study and academics. Students will complete two academic terms, which are followed by alternating work and academic terms. Each work/study term is four months long. For more information, c tact the Department of Co-operative Education.

Distance Learning and Teleconferencing
The college presents videoconferences a teleconferences on-campus and on-site i industry.

Futures
Futures provides skills training and work e perience to help young people 16-24 year of age prepare for permanent employmen Telephone (416) 849-4810 or 457-4707.

Skills Development/Apprenticeship Divisio
Along with offering academic upgrading, pre-employment, and apprenticeship programs, this division offers commercial refresher courses and English as a secon language as well as mechanical and techn cal programs that provide students with marketable skills. For further information, contact the college's Skills Development Division or the local Canada Employment and Immigration Centre (CEIC).

Training and Development Division
This division aims to meet the needs of local industries by providing courses to upgrade the knowledge and skills of employees at a minimal cost. Training can be provided at our campus locations or on-site at the industry's facility. The Futures program places a young adult in a training position in an organization to learn practica marketable skills.

Additional Costs

The estimated cost of books, supplies, and instruments for the academic year varies from $500 to $6 000, depending on the typ of program. Please consult the college calendar or phone for more information.

Further Information

Please contact
Registrar's Office
(416) 849-2800

Communications-Liaison
(416) 849-2816

Sheridan College of Applied Arts and Technology
1430 Trafalgar Rd.
Oakville, Ontario L6H 2L1
Telephone (416) 845-9430 ext. 800
direct lines from Mississauga and Brampton (416) 823-9730
direct lines from Hamilton and Burlington (416) 632-7081

Sir Sandford Fleming College of Applied Arts and Technology

Peterborough, Lindsay

President: Dr. Brian L. Desbiens

Enrolment 1989-90

Full-time enrolment	3 757
Part-time registrations	16 150

Sir Sandford Fleming College's Sutherland Campus in Peterborough and the Frost Campus School of Natural Resources in Lindsay are the college's major postsecondary facilities, offering a total of nearly 80 full-time programs. Numerous non-semestered programs, apprenticeships, and continuous learning and training opportunities are also offered. In addition, the college operates facilities in Cobourg and Haliburton, the home of its Summer School of Fine Arts.

Campus locations:

Sutherland Campus
Brealey Drive
Peterborough, Ontario
K9J 7B1
(705) 749-5500
1-800-461-6423

Frost Campus
School of Natural Resources
Box 8000
Lindsay, Ontario
K9V 5E6
(705) 324-9144
1-800-461-0340

Northern Office
Box 339
Haliburton, Ontario
K0M 1S0
(705) 457-1680

Lakeshore Office
King St. Box 754
Cobourg, Ontario
K9A 4R5
(416) 372-6865

Sutherland Campus

• School of Applied Arts and Health

Three-year diplomas
Art conservation techniques, employment counsellor, nursing.
Additional admission requirements: refer to the college calendar.

Two-year diplomas
Arts administration, audio-video graphics communication technician, early childhood education, educational assistant, general arts and science, recreation leadership, science technician – laboratory, social service worker.

One-year certificate
Nursing assistant.
Additional admission requirements: refer to the college calendar.

• School of Technology and Law

Three-year diplomas (technology)
Electrical engineering, electronics engineering (computer systems), electromechanical engineering (robotics), manufacturing engineering.
Additional admission requirements: refer to the college calendar.

Two-year diplomas (technician).
Electrical engineering (controls), electronics engineering, electronics engineering (telephone systems), electronics engineering (consumer electronics), electromechanical engineering (robotics), manufacturing engineering, mechanical engineering (tool and die).
Additional admission requirements: refer to the college calendar.

One-year certificates
Construction trades technician (co-op), marina technician (co-op), security alarm installer (co-op).

52-week diplomas (non-semestered)
Electromechanical engineering technician (robotics), electronic engineering (microcomputer), electronic engineering (telephone systems).
Additional admission requirements: refer to the college calendar.

• School of Business

Three-year diplomas
Business administration (accounting, general, information systems, marketing, materials management, personnel management), office systems administration, tourism and transportation (convention management, general, hospitality management).
Additional admission requirements: refer to the college calendar.

Two-year diplomas
Business (general, office systems, sales and merchandising), fashion merchandising, food and beverage management, food service supervisor, recreation merchandising, office administration (executive, legal, medical, word processing), tourism and transportation (travel merchandising).
Additional admission requirements: refer to the college calendar.

One-year certificate
Retailing.
Additional admission requirements: refer to the college calendar.

Frost Campus

• Resource Management Division

Three-year diplomas (technology)
Fish and wildlife, forestry, parks and forest recreation (co-op), natural resources technologist (law enforcement).
Additional admission requirements: appropriate technician diploma.

Two-year diplomas (technician)
Aquaculture, fish and wildlife, environmental pest management, forest recreation (co-op), forestry.
Additional admission requirements: Grade 12 general level mathematics and English.

• Resource Services Division

Two-year diploma
General arts and science.
Additional admission requirements: Grade 12 general level mathematics and English.

• Resource Technology Division

Three-year diplomas (technology)
Cartographic, geoscience specialist, geotechnical, heavy-equipment specialist, minerals engineering, terrain and water resources.
Additional admission requirements: appropriate technican diploma.

Two-year diplomas (technician)
Cartographic, geographic information systems, geological (geotechnical), geological (minerals), geoscience data, heavy equipment (co-op), resources drilling, terrain and water resources.
Additional admission requirements: Grade 12 general level mathematics and English.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Industrial-based training
A variety of federal and provincial training programs are offered, as well as custom-designed courses for business and industry.

Continuing education
Sir Sandford Fleming College offers comprehensive continuing education, part-time programs leading to certificates and diplomas in business, technology, applied arts, and health sciences. The Cobourg, Lindsay, Haliburton, and Peterborough campuses also offer a variety of special-interest and employment-related courses. The Haliburton campus is a full-time, year-round facility. In addition to offering academic and training courses, the campus offers a unique summer program in fine arts. The Conference and Seminar Centre provides the community with training tailored to specific needs. Offerings include recent innovations in education, business, industrial technology, health, recreation, and human resources development.

Non-Semestered Programs
Sir Sandford Fleming College offers a variety of non-semestered and short programs:

a) Academic and employment training: basic training for skill development, Futures, Ontario Basic Skills.

b) College qualifying.

c) Skills training: commercial refresher, drilling and blasting, forest nursery worker, hardwood lumber inspector, marine

mechanic, sawmill management, urban tree maintenance worker.
d) English as a second language.

Further Information

For further information on admission requirements, please contact

Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
Sutherland Campus
Brealey Drive
Peterborough, Ontario K9J 7B1
Telephone (705) 749-5500
Toll-free 1-800-461-6423
or
Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
School of Natural Resources
Frost Campus
P.O. Box 8000
Lindsay, Ontario K9V 5E6
Telephone (705) 324-9144
Toll-free 1-800-461-0340

Information on student financial assistance may be obtained from

Financial Assistance Officer
Sir Sandford Fleming College of Applied Arts and Technology
Sutherland Campus
Brealey Dr.
Peterborough, Ontario K9J 7B1
Telephone (705) 749-5500
or
Financial Assistance Officer
Sir Sandford Fleming College of Applied Arts and Technology
School of Natural Resources
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Toll-free 1-800-461-0340

Apprenticeship

What is apprenticeship?

Put simply ... apprenticeship is an agreement between a person like you who wants to learn a skill and an employer who wants to train you to be a skilled worker.

Both you and your employer will benefit from apprenticeship. In exchange for your services, you will have the opportunity to learn skills that can provide you with a rewarding career. Your employer will gain a productive, skilled worker.

Apprenticeship is a proven way to train. Canadians trained through apprenticeship have been part of the teams that created:

- the space arm on the U.S. shuttlecraft
- the CN Tower, the world's tallest free-standing structure
- the Urban Transport Development Corporation train – the train of the future
- gourmet meals for world-renowned restaurants and hotels.

Skilled workers, trained through apprenticeship, bake your bread, fix your car, build your home, and print what you are reading now. You too can learn these skills.

Apprenticeship training is administered by the Ministry of Skills Development, under the Apprenticeship and Tradesmen's Qualification Act.

How apprenticeship works

The first step to becoming an apprentice is to decide which occupation best matches your goals and interests. To help you do that, the following pages will help you find out about different careers and their apprenticeship requirements.

You also may wish to review the publication, *Apprenticeship: For Careers with a Future,* which is available in school and public libraries or at your local Apprenticeship Office. For further information on apprenticeship opportunities in your community, contact an Apprenticeship Branch training consultant.

Once you have decided upon an occupation, the next step is to find an employer or union to train you as an apprentice. This may be an employer you already know; or you may have to "pound the pavement", knock on doors, or reply to classified ads before you find someone suitable. However, you are not alone here. Many employers are on the lookout for keen, ambitious apprentices.

There are many opportunities for females to enter apprenticeships. You can enlist the aid of an industrial training consultant in one of the Apprenticeship Branch's 27 field offices for information about special programs for women. Also, a consultant may be able to advise you on apprenticeship opportunities in your area, and can answer questions you may have about apprenticeship.

The consultant is the person to see aft
you've found an employer. Your consulta
will confirm that you meet the age and
educational requirements; will determine
along with your employer, whether your
schooling and previous work experience
entitles you to a shortening of the appre
ticeship requirements; and will do the
administrative work so that you and your
employer can sign a formal contract of
apprenticeship. This contract spells out t
conditions of training and, for some occu
tions, wages.

Most of your training (about 90%) will b
hands-on experience gained in the work-
place under the supervision of journeype
sons and supervisory personnel. The
remainder usually is conducted at a colle
of applied arts and technology.

When attending school, you may be ab
to receive financial help from the Canada
Employment and Immigration Commissio

Apprentices usually attend on a "block-
release" basis (go to school full time for a
number of weeks each year) or a "day-release" basis (attend school one day a
week). In some cases, night school and
correspondence courses are also options
In addition, in some communities, alterna
tive programs may be available that allow
apprentices to take all their in-school trair
ing at the start of their apprenticeship or t
combine work towards a secondary scho
graduation diploma with credits towards a
apprenticeship. Your apprenticeship cons
ant has more information about these alte
natives.

Apprenticeship training is divided into
"periods", which are measured in total hou
of school and work; 1 800-2 000 hours are
about the same as one year. During that
time, the wages you are paid by your
employer will never be less than Ontario's
minimum wage. As your productivity improves with the successful completion of
each period, your wages will increase. Th
amount of this raise differs for each skilled
occupation and is subject to negotiation w
your employer. New apprentices are
eligible to receive an Apprentice Tool Fund
grant from the Ontario government to help
them buy some of the tools they need for
their training.

Many skilled occupations are regulated
Ontario; that is, they are governed by regu
tions that outline the standards and conditions of training for that occupation. There
are also apprenticeship training programs
designed to provide specific job skills for
more than 600 employer-specific occupations.

To complete an apprenticeship in any
occupation, apprentices must write and
pass the Certificate of Qualification examir
tion, where the exam is available. Successful individuals will receive Certificates of
Qualification and of Apprenticeship. About
20 regulated skilled occupations have Inte
provincial Standards examinations, and a
mark of 69% entitles you to an

Interprovincial Red Seal, which permits you to practise your occupation across Canada without further examination. On the following pages, these occupations are marked with an asterisk (*).

In certain regulated skilled occupations, certification is compulsory; only holders of a Certificate of Qualification or registered apprentices can work in these occupations.

Regulated occupations with voluntary certification do **not** require Certificates of Qualification or of Apprenticeship. However, these certificates indicate a certain level of skill to prospective employers, and some employers and unions require them.

You may work in any of the employer-specific occupations without being a registered apprentice. However, graduate apprentices in these occupations are awarded certificates as evidence of having attained a provincially recognized level of knowledge and skill.

Please note that **most** of the skilled occupations described here are regulated.

The following pages show, for each skilled occupation, the number of hours you will spend on the job and in the classroom. Also listed are the skills you will learn during your apprenticeship.

It's in your hands

Choosing a career is one of the most important decisions you'll ever make, and the following pages will provide some of the information you'll need to ensure that your decision is a sound one.

A contract of apprenticeship is just that – a contract – with rights and obligations on both sides. Before an employer is willing to invest time and money in you, he or she must be convinced that it's worth it. Employers want to see a positive attitude and a willingness to work hard, both on the job and at school. They want their apprentices to demonstrate the ability and commitment to follow through to the end of the training program. Only then will they match your investment in yourself and your future.

The regulated and employer-specific occupations are grouped into four categories: construction, industrial, motive power, and service. In addition, there is a list of some employer-specific trades at the end of this section.

What are the entrance requirements?

For most skilled occupations, the minimum educational requirement is Grade 10 or its equivalent. Some employers and unions, however, insist that applicants have higher academic standards, with credits in specific subjects. Remember that additional education is an asset in the pursuit of any career.

More information

For more detailed information on the apprenticeship system, specific skilled occupations, and their training requirements, contact the nearest Apprenticeship Branch Office of the Ministry of Skills development. These offices are listed at the end of this section.

- **Construction Occupations Regulated**

Brick and Stone Mason*

Educational requirements

Grade 8 or equivalent (minimum).

Duration of program

Four periods of 1400 hours each, including three in-school sessions of 8 weeks each.

Duties and skills

Constructs and erects walls, arches, fireplaces, chimneys, smokestacks, and other items of brick and stone masonry components; lays firebrick and other refractory materials in walls and arches in the construction of furnaces, or in lining furnaces and retorts, or in enclosing boilers, tanks, and heat-treating furnaces.

Cement Mason

Educational requirements

Grade 8 or equivalent (minimum).

Duration of program

Three periods of 2000 hours each.

Duties and skills

Finishes concrete flooring by hand or with mechanical equipment, including the application of curing and surface treatments; carries out all phases of water-proofing and restoration of concrete; rubs up and repairs hardened concrete surfaces; places and finishes epoxy, plastic, and other composition materials; finishes and exposes aggregate in pre-cast and architectural concrete.

Construction Boilermaker*

Educational requirements

Grade 10 or equivalent (minimum).

Duration of program

Four periods of 1650 hours each, including three in-school sessions of 8 weeks each.

Duties and skills

Lays out, assembles, and erects boilers, pressure vessels, and heat exchangers, and repairs component parts; reads and understands drawings, specifications, technical literature, and manufacturers' and safety regulations; fits plates, connects steel members, drills, reams, bolts, rivets, welds, and rigs; stress-relieves and tests pressure vessels and enclosures, using air, water, smoke, and other methods.

Construction Millwright

Educational requirements

Grade 10 or equivalent (minimum).

Duration of program

Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills

Installs, repairs, and maintains mechanical machines, their components, and related devices and systems in industrial plants, commercial and institutional buildings, or construction sites; has a broad knowledge of metallurgy, welding, blueprint reading, and the use of precise measuring instruments.

Electrician (Construction and Maintenance)*

Educational requirements

Grade 10 or equivalent (minimum).

Duration of program

Five periods of 1800 hours each, including two in-school sessions of 10 weeks and one of 8 weeks.

Duties and skills

Lays out, assembles, installs, repairs, maintains, connects, or tests electrical fixtures, apparatus, control equipment, and wiring for systems of alarm, communication, light, heat, or power in buildings or other structures; plans proposed installations from blueprints, sketches, or specifications, or installs panel boards, switch boxes, pull boxes, and other related electrical devices.

Electrician (Domestic and Rural)

Educational requirements

Grade 10 or equivalent (minimum).

Duration of program

Four periods of 1800 hours each, including two in-school sessions of 10 weeks.

Duties and skills

Performs the work of an electrician in the construction, erection, repair, remodelling, or alteration of houses, multiple-dwelling buildings containing six or fewer dwellings, or buildings or structures used for farming; performs maintenance to electrical equipment in houses, multiple-dwelling buildings containing six or fewer dwellings, or farm buildings or structures.

General Carpenter*

Educational requirements

Grade 10 or equivalent (minimum).

Duration of program

3844 hours minimum, 7200 hours maximum, including three in-school sessions of 8 weeks each.

Duties and skills

Does the woodwork in the erection, alteration, or repair of structures; builds and erects forms for concrete; erects scaffolds, partitions; places door frames and window frames; lays floors; prepares walls and ceilings for plastering; installs interior fixtures and kitchen cupboards, and prepares and erects panels; lays out and erects stairs and handrails; fits and fixes hardware; fits doors, windows, and fixtures; weatherproofs outside walls.

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* Red Seal trade

* Red Seal trade

Glazier and Metal Mechanic

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Performs layout, fabrication, assembly, and installation of extruded frames, hardware, store fronts, wall facings, manual sliding doors, window sashes, manual door closers, automatic door operators, and curtain walls; performs layout, fabrication, assembly, and installation of suspended glass fronts, stuck glass fronts, art glass, aquariums, and similar special products; cuts, fits, and installs glass in wood and metal frames for windows, skylights, store fronts, display cases, building fronts.

Hoisting Engineer

This occupation consists of two branches:
Branch 1 – mobile crane operator
Branch 2 – tower crane operator

Educational requirements
Grade 10 (minimum).

Duration of program
Branch 1 – Mobile Crane Operator
Three periods of 2000 hours each, including two in-school sessions of 6 weeks.
Branch 2 – Tower Crane Operator
Two periods of 2000 hours each, including one in-school session of 6 weeks.

Duties and skills
Branch 1 – Mobile Crane Operator
Maintains and operates any mechanical device or structure incorporating a power-driven drum and wire rope that is used for raising, lowering, or moving material and is equipped with a boom capable of moving in the vertical plane and mounted on a base or chassis intended to provide mobility; such mobile cranes may be crawler or wheel mounted.
Branch 2 – Tower Crane Operator
Maintains and operates any mechanical device or structure incorporating a power-driven drum, boom and wire rope that is used for raising, lowering, or moving material and utilizing a vertical mast or tower and jib; such tower cranes may be of the travelling, fixed, or climbing type.

Ironworker

Educational requirements
Grade 10 or equivalent and 17 years of age (minimum).

Duration of program
Three periods of 2000 hours each, including three in-school sessions of 8 weeks (24 total).

Duties and skills
Field-fabricates, assembles, installs, handles, hoists, erects, dismantles, reconditions, adjusts, alters, repairs, or services all structural iron work, pre-cast and pre-stressed concrete, concrete reinforcing materials, ferrous and non-ferrous materials in curtain wall, ornamental and miscellaneous metal work, and all other materials used in lieu thereof.

Lather

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1800 hours each, including two in-school sessions of 10 weeks each.

Duties and skills
In the construction or repair of walls, partitions, ceilings, and arches in any structure: installs by tying, nailing, clipping, or welding wire, metal, or wood lath, plaster board, or other materials and accessories to serve as a base for plaster, cement, or acoustic material; erects plastic and light metal studs, frames, and accessories to receive plaster board and wire and metal lath.

Lineperson

This occupation consists of two branches:
Branch 1 – Powerline Maintainer
Branch 2 – Powerline Installer

Educational requirements
Both branches:
Grade 10 or equivalent (minimum).

Duration of program
Branch 1 – Powerline Maintainer
Four periods of related training and work experience of 2000 hours each.
Branch 2 – Powerline Installer
Three periods of related training and work experience, one of 2500 hours and two of 2000 hours each.

Duties and skills
Branch 1 – Powerline Maintainer
Operates, maintains, and services overhead and underground power lines used to conduct electricity from generating plants to consumers.
Branch 2 – Powerline Installer
Constructs or assembles a system of power lines used to conduct electricity from generating plants to consumers.

Painter and Decorator

This occupation consists of two branches:
Branch 1 – Commercial/Residential
Branch 2 – Industrial

Educational requirements
Both branches:
Grade 10 or equivalent (minimum).

Duration of program
Both branches:
Three periods of related training and work experience of 1800 hours each, including one in-school session of 8 weeks and two of 7 weeks.

Duties and skills
Branch 1 – Commercial/Residential
Prepares and performs interior and exterio work to plaster, wallboard, wood, metal, co crete masonry, stucco, and allied materials prepares and works with steam wallpaper-stripping machines, and applies wall coverings, wallpaper, grass cloth, wood veneer, vinyl fabrics, and allied materials.

Branch 2 – Industrial
Prepares and performs interior and exterio work to plaster, wallboard, wood, metal, co crete masonry, stucco, and allied materials prepares and performs work by mechanica processes, blow torches, spray guns, and sandblasting.

Plasterer

Educational requirements
Grade 8 or equivalent (minimum).

Duration of program
Four periods of 1600 hours each.

Duties and skills
Applies plaster and stucco to the walls anc ceilings, whether interior or exterior, of a structure; applies plaster and stucco on lat masonry, and rigid insulation; tapes gypsu panels and wallboard.

Plumber*

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Lays out, assembles, installs, maintains, o repairs in any structure, building, or site, piping, fixtures, and equipment for the sup ly of water for any domestic or industrial purpose or for the disposal of water after it has been used for a domestic or industrial purpose.

Refrigeration and Air-conditioning Mechanic*

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Installs or assembles any component of a refrigerating or air-conditioning system; assembles or connects any pipe or duct usec in piping refrigerant or conditioned air; ove hauls or repairs any equipment used in refrigerating or air-conditioning systems.

Sheet Metal Worker*

Educational requirements
Grade 10 or equivalent (minimum).

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* Red Seal trade

Duration of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Manufactures, fabricates, assembles, handles, erects, installs, dismantles, reconditions, adjusts, alters, repairs, or services all ferrous and non-ferrous sheet metal work and other materials used in its place.

Sprinkler and Fire Protection Installer*
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 1800 hours each, including three in-school sessions of 8 weeks.

Duties and skills
Lays out, assembles, installs, tests, and maintains high- and low-pressure pipeline systems for supplying water, air, foam, carbon dioxide, or other materials to or for fire protection systems.

Steamfitter*
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Five periods of 1800 hours, including three in-school sessions of 8 weeks each.

Duties and skills
Lays out, assembles, installs, maintains, or repairs any heating system, cooling system, process system, or industrial system; installs or connects piping in any building or structure; installs the piping for any process, including a process that conveys gas, or the tubing for any pneumatic or air-handling system.

• Construction Occupations Employer-Specific

Draftsperson (Architectural)
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 2000 hours each.

Duties and skills
Prepares drawings showing internal, external, or other architectural features of office blocks, residential structures, and industrial, commercial, and other buildings.

Drywall and Acoustic Mechanic
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1500 hours each.

Duties and skills
Applies wallboard sheets to ceilings and interior walls of buildings; installs thermal acoustic insulation and sound-absorption materials.

Terrazzo, Tile, and Marble Setter
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each.

Duties and skills
Installs decorative surfacings composed of cement, sand, pigment or chemical compounds, marble, or other aggregates on floors, stairs, and other surfaces.

• Industrial Occupations Regulated

Fitter (Structural Steel/Platework)
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Reads and interprets blueprints; performs measuring, checking, and layout operations; assembles metal plates and sections, moves finished products using cranes, slings, or other lifting equipment.

General Machinist*
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Eight periods of 1000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Sets up and operates various types of precision metal-cutting and grinding machines to close tolerances; has a broad understanding of metallurgy; is familiar with the use and care of precision measuring equipment; has a detailed knowledge of blueprint reading.

Industrial Mechanic (Millwright)*
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each, including three sessions of in-school training of 8 weeks each.

Duties and skills
Installs, repairs, and maintains mechanical machines, their components, and related pneumatic and hydraulic systems in industrial plants or specific process areas; has a broad knowledge of metallurgy, welding, blueprint reading, and the use of precision measuring instruments.

Industrial Woodworker
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Sets up and operates a variety of machinery used in the construction and fabrication of products manufactured from wood and related materials, such as cabinets, furniture, doors, and door frames.

Mould Maker
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Eight periods of 1000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Makes, repairs, and modifies moulds, models, and templates; has a detailed knowledge of blueprint and drawing interpretation, plastics, and processing methods and equipment.

Printer
This occupation consists of three branches and is under review for changes in the regulations:
Branch 1 – Pre-Press Printer
Branch 2 – Press Printer
Branch 3 – Bindery Printer

Educational requirements
All branches:
Grade 10 or equivalent (minimum).

Duration of program
Branches 1 and 2:
Four periods of related training and work experience of 2000 hours each, including three in-school sessions of 8 weeks each (about four years in all).

Branch 3:
Four periods of related training and work experience, including two in-school sessions (about four years in all).

Duties and skills
Branch 1 – Pre-Press Printer
In addition to being skilled in photographic techniques, pre-press printers must be able to identify the different kinds of paper and their properties; select types of suitable size and style; operate typesetting equipment; proofread, using standard proofreader's symbols; create job layouts and dummies; and operate the guillotine, folders, drills, stitchers, and other bindery equipment. They should also have a basic knowledge of graphic arts, including the history of printing. Cost analysis and small business operations are two futher aspects of the job.

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* Red Seal trade

* Red Seal trade

Branch 2 – Press Printer
Press printers maintain and operate printing presses of various types and sizes. The job includes making printing plates with materials provided by the pre-press printer; acquiring the correct paper and inks for the job at hand; setting the press up for a run; and, during the run, ensuring that colours are properly mixed and otherwise maintaining quality control.

Branch 3 – Bindery Printer
Bindery printers interpret the layout of press sheets and determine how to cut them in a way that achieves the most cost-effective use of the stock. They must also construct and check "dummies" (models); operate cutting, folding, and stitching machines; and be skilled in such hand operations as gathering, inserting, jogging up and counting sheets, applying adhesives, and carrying out library repairs and book restorations.

Tool and Die Maker
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Eight periods of 1000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Makes, repairs, and modifies dies, forms, cutting tools, gauges, jigs, and fixtures; works to close tolerances; has a detailed knowledge of blueprint reading and interpretation; should have a broad understanding of metallurgy and a working knowledge of the use, care, and operation of machine tools and related equipment.

- **Industrial Occupations Employer-Specific**

Carpenter (Plant)
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 1800 hours each.

Duties and skills
In an industrial plant or industrial processing area, cuts, shapes, assembles, erects, and maintains various types of wood structures and fittings, using hand and power tools; makes, alters, and repairs structural woodwork and objects.

Chemical Plant Operator
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 2000 hours each.

Duties and skills
Operates control panels that control distillation trains, chemical reactors, pumps, compressors, and heat exchangers; operates and controls filters, blenders, and steam, electric, and gas heating devices, decanters, mixers, dryers, pumps, compressors, vacuum jets and pumps, conveyors, fans, and blowers; fills containers, tank cars, tank trucks, and storage tanks.

Draftsperson (Mechanical)
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 2000 hours each.

Duties and skills
Prepares working plans and other technical drawings from sketches or notes for machines, engines, jigs and fixtures, mechanical equipment, and various types of products for engineering, manufacturing, illustrative, and other purposes.

Electrician (Plant Maintenance)
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each.

Duties and skills
In an industrial plant, installs conduit, junction boxes, and switches; pulls, insulates, and seals cables; installs, aligns, hooks up, and tests machines; installs lighting, control, communications, and heating systems; overhauls and repairs AC and DC motors and generators.

Electronics Mechanic (Industrial Control)
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each.

Duties and skills
Installs, tests, calibrates, and repairs electronic control, monitoring, and communications equipment in an industrial plant.

Patternmaker
Duration of program
Four periods of 1800 hours each (under review for regulation).

Duties and skills
Builds, shapes, or repairs wood, plastic, and metal patterns to drawings or specifications, using hand and power tools, woodworking machines, and machine tools; makes or repairs patterns, including die-block patterns, following blocks for die-sinking machines, using gypsum plasters and cements, poured resin, or fibreglass and resin lay-ups; machines and finishes to drawings or specifications.

Sheet Metal Worker (Plant)
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each.

Duties and skills
In an industrial plant: fabricates, installs, or repairs sheet metal products used for plant maintenance, dust collection, ventilation systems, and plant processes.

Welder (Arc and Gas)
Educational requirements
Grade 10 or equivalent.

Duration of program
Four periods of 2000 hours each.

Duties and skills
Welds metal parts together, according to layouts, blueprints, or work orders, using both gas welding and any combination of arc welding processes such as manual, automatic and semi-automatic, inert gas, and submerged arc; may perform flame-cutting and grinding.

Other information
To weld on boilers, pressure vessels, and pressure piping, it is necessary to pass qualification tests specified by the Ontario Ministry of Consumer and Commercial Relations, Technical Standards Division, Pressure Vessels Safety Branch.

- **Motive Power Occupations Regulated**

Air-Cooled and Marine Engine Mechanic
This occupation consists of four branches:
Branch 1 – Small-Engine Mechanic
Branch 2 – Marina And Small-Powered Equipment Mechanic
Branch 3 – Small-Engine Mechanic (construction)
Branch 4 – Boat Motor Mechanic

Educational requirements
All branches:
Grade 10 or equivalent (minimum).

Duration of program
Branches 1-3:
Two periods of 2000 hours each, including two in-school sessions of 10 weeks each.

Branch 4:
Four periods of 1800 hours each, including two in-school sessions of 10 weeks each.

Duties and skills
Branch 1 – Small-Engine Mechanic
Repairs small air-cooled gasoline and diese engines used to power lawnmowers, snowblowers, chainsaws, garden tractors, snowmobiles, portable pumps, and generator sets, as well as air- or water-cooled outboard motors.

Branch 2 – Marina and Small-Powered Equipment Mechanic
Tests and inspects, locates faults in, maintains, repairs, overhauls, and prepares for storage small air- and water-cooled gasoline and diesel engines used to power motor boats and small powered equipment; cleans, maintains, repairs and refinishes wooden, aluminum, and fiberglass boat hulls and fittings.

Branch 3 – Small-Engine Mechanic (Construction)
Repairs small air- and water-cooled internal combustion engines used to power

construction tools and equipment: chainsaws, small tractors, portable pumps, air compressors, and generator sets.

Branch 4 – Boat Motor Mechanic
Repairs air- and water-cooled internal combustion engines used to power boats such as inboard, outboard, stern drive engines; maintains, repairs, commissions boats; also installs, replaces, repairs, tests, and maintains electrical and plumbing and all auxillary equipment for boats.

Alignment and Brakes Mechanic

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles front and rear suspension systems and brake system components, including such items as wheels, tires, springs, and shock absorbers; inspects frame alignment and realigns as necessary.

Auto Body Repairer*

Educational requirements
Grade 8 or equivalent (minimum).

Duration of program
Four periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Hammers out dents in body panels, fenders, and skirting; files, grinds, sands, fills, and finishes ready for priming any dented or pierced area; uses heat to shrink or stretch metal panels; welds breaks in body areas; tests for and corrects faulty alignment of frames.

Automotive Machinist

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 1800 hours each, including one in-school session of 8 weeks and two of 7 weeks.

Duties and skills
Reconditions and rebuilds internal combustion engines and associated components; reconditions power trains and brake and suspension system components.

Automotive Painter

Educational requirements
Grade 8 or equivalent (minimum).

Duration of program
Two periods of 1800 hours each, including one in-school session of 8 weeks.

Duties and skills
Sands, fills, primes, and applies finishing paint; dries and bakes newly painted surfaces; mixes paints and ingredients and matches colours; refinishes galvanized outer panels and anodized aluminum mouldings.

Farm Equipment Mechanic

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Five periods of 1800 hours each, including one in-school session of 14 weeks and two of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of farm machinery, including steering mechanisms, brakes, engines, power trains, and suspension, air conditioning, fuel, and electrical systems.

Fuel and Electrical Systems Mechanic

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Diagnoses faults in, disassembles, adjusts, services, repairs, and assembles components of motor vehicles, including electrical, fuel, ignition, and air conditioning systems; performs minor and major engine tune-ups.

Heavy-Duty Equipment Mechanic*

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Five periods of 1800 hours each, including one in-school session of 12 weeks and two of 7 weeks.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of heavy-duty equipment, including steering mechanisms, brakes, engines, power trains, and suspension, fuel, and electrical systems.

Motorcycle Mechanic

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, and overhauls all components of motorcycles, including forks, frames, brakes, engines, power trains, and suspension, fuel, and electrical systems.

Motor Vehicle Mechanic*

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of motor vehicles, including steering mechanisms, brakes, engines, power trains, and suspension, air conditioning, fuel, and electrical systems.

Transmission Mechanic

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1800 hours, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all motor vehicle transmissions, both automatic and standard, and drive shafts; is familiar with the effects of other components of motor vehicles on the operation of transmissions and drive shafts.

Truck-Trailer Repairer

Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of truck trailers, including suspension systems, frames, brakes, and electrical and air conditioning systems.

• Service Occupations Regulated

Baker

This occupation consists of three branches:
Branch 1 – Junior Baker
Branch 2 – Baker
Branch 3 – Patissier

Educational requirements
All branches
Grade 8 or equivalent (minimum).

Duration of program
Branch 1 – Junior Baker
One period of 2000 hours, including one in-school session of 15 weeks.

Branch 2 – Baker
Three periods of 2000 hours each, including two in-school sessions of 15 weeks each.

Branch 3 – Patissier
Four periods of 2000 hours each, including two in-school sessions of 15 weeks and one session of 5 weeks.

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* Red Seal trade

* Red Seal trade

Duties and skills
Branch 1 – Junior Baker
Prepares ingredients, straight dough, different types of fermented goods, pies, sweet and puff paste goods, cookies, muffins, tea biscuits, and doughnuts; assists in bakery formulation and fermentation processes.

Branch 2 – Baker
Supervises bakery formulation, fermentation, stock control, receiving and issuing, product costing, and ingredient and material purchasing; prepares puddings and desserts, pastry and choux paste, bread and rolls, icings and fillings, and cakes and creams.

Branch 3 – Patissier
Prepares specialty cakes, pastries, petits fours, chocolate and couverture specialty cookies, wedding cakes, desserts, almond paste, and gum paste, and decorates desserts.

Cook
This occupation consists of two branches:
Branch 1 – Assistant Cook
Branch 2 – Cook*

Educational requirements
Both branches:
Grade 10 or equivalent (minimum).

Duration of program
Branch 1 – Assistant Cook
One period of 2000 hours, including one in-school session of 15 weeks.

Branch 2 – Cook
Three periods of 2000 hours each, including two in-school sessions of 15 weeks each.

Duties and skills
Branch 1 – Assistant Cook
Prepares and assembles complete breakfasts, short-order grills, sandwiches, simple salads, simple desserts, vegetables, and non-alcoholic beverages; carves cooked meats, poultry, and game; has a working knowledge of table service, soups, and sauces.

Branch 2 – Cook
Prepares and assembles complete meals, short-order grills, sandwiches, vegetables, hot and cold buffets, salads and dressings, desserts, and non-alcoholic beverages; carves cooked meats, poultry, fish, and game; has a working knowledge of table service; has a knowledge of stock control, menu planning, and food costing and purchasing.

Hairstylist
This occupation consists of three branches (under review):
Branch 1 – Barber
Branch 2 – Hairdresser
Branch 3 – Hairstylist

Educational requirements
All branches:
Grade 9 or equivalent (minimum).

Duration of program
Branches 1 and 2 – Barber and Hairdresser
Three periods of 1500 hours each, including two in-school sessions of 8 weeks each.

Branch 3 – Hairstylist
Three periods of 1580 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
All branches:
Tints, bleaches, or dyes hair; shampoos hair and scalp; gives hair and scalp treatments; cuts and trims hair; curls or waves hair by any means; combs or brushes hair; shapes, colours, or treats eyebrows or eyelashes; In addition, Branch 1, barber, shaves or trims beards or moustaches; Branch 2, hairdresser, gives facials and manicures and applies make-up; Branch 3, hairstylist, performs all of the above.

Other information
A person may also become a barber, hairdresser, or hairstylist by successfully completing a ministry-approved program offered by a licensed private school, a college of applied arts and technology, or a high school. A list of schools in Ontario is available from the Ministry of Skills Development, Apprenticeship Branch.

Horticulturist
This occupation consists of two branches:
Branch 1 – Nursery - Greenhouse Worker
Branch 2 – Landscaper - Greenskeeper

Educational requirements
Both branches:
Grade 10 or equivalent (minimum).

Duration of program
Both branches:
4500 hours each, including one 8-week and one 12-week in-school sessions.

Duties and skills
Branch 1 – Nursery - Greenhouse Worker
Plants, cultivates, and harvests trees, shrubs, and ornamental and flowering plants; plants, transplants, and sells related horticultural products.

Branch 2 – Landscaper - Greenskeeper
Prepares sites by excavating, hauling, and spreading soils and aggregates; develops and maintains turf and fine turf by fertilizing, seeding, sodding, regrading, and irrigating; plants, prunes, and cultivates trees, shrubs, flowers, and bulbs; maintains flowers, shrubs, trees, and all other related plant materials; installs flagstones, concrete, asphalt, and timber in the construction of landscape areas; develops and maintains recreational and ancillary areas.

Radio and TV Service Technician*
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 2000 hours each, including two in-school sessions of 18 weeks each.

Duties and skills
Installs, adjusts, and repairs radio and television receivers and other domestic electronic equipment. *Does not include* th manufacture of radio, television, amplifier, other related electronic equipment; and does not necessarily include the repair an maintenance of such equipment in an industrial plant, or the wiring of such equipment to an external power source.

- **Service Occupations Employer-Specific**

Note: All employer-specific occupations ar covered by Regulation 36, section 6.

Butcher
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Four periods of 1800 hours each.

Duties and skills
Carries out slaughtering, skinning, cleanin and hanging operations, bones and trims various types of meat carcasses – i.e., be veal, lamb, and pork – into marketable reta cuts; may make various kinds of sausages and prepare special meats and fancy mea products.

Furrier
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Three periods of 2000 hours each.

Duties and skills
Makes, alters, restyles, and repairs fur gar ments; estimates cost of new garments, alterations, renovations, and repairs.

Retail Meat Cutter
Educational requirements
Grade 10 or equivalent (minimum).

Duration of program
Two periods of 2000 hours each, including one in-school session of 18 weeks.

Duties and skills
Bones and trims various types of meat car casses – i.e., veal, beef, lamb, and pork – into marketable retail cuts; may make various types of sausages and prepare sp cial meats and fancy meat products; may also carry out poultry and fish preparation.

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* Red Seal trade (branch 2 only)

* Red Seal trade

•Other Employer-Specific Occupations

There are training schedules for over 600 employer-specific occupations in Ontario. Some of the more popular ones are listed here, along with the number of training hours involved in each. Graduate apprentices are awarded Certificates of Apprenticeship as evidence of having attained a provincially recognized level of knowledge and skill.

New apprenticeship training programs can be developed on request. The programs usually are custom-designed to meet the exact requirements of individual jobs and employers.

Auto Upholsterer
Three periods of 1800 hours each.

Electro-Plater
Four periods of 1800 hours each.

Foundryperson (Coremaker)
Two periods of 2000 hours each.

Foundryperson (Moulder)
Four periods of 2000 hours each.

Ironworker (Plant)
Three periods of 2000 hours each.

Optics Technician
(Lens and Prism Maker)
Four periods of 2000 hours each.

Pipefitter (Industrial)
Three periods of 2000 hours each.

Plastics Technician
Four periods of 2000 hours each.

Plumber (Plant)
Four periods of 2000 hours each.

Ship Builder (Joiner)
Four periods of 2000 hours each.

Ship Builder (Ship Plater)
Four periods of 2000 hours each.

Steel Mill Worker (Blast Furnace)
Four periods of 2000 hours each.

Steel Mill Worker (Rolling Mill)
Four periods of 2000 hours each.

Upholsterer (Furniture)
Three periods of 2000 hours each.

•Apprenticeship Branch Offices

For more information, please contact a training consultant at the Apprenticeship Branch office nearest you.

Barrie (705) 737-1431
Belleville (613) 968-5558
Brantford (519) 756-5197
Brockville (613) 342-5481
Chatham (519) 354-9100
Cornwall (613) 938-9702
Hamilton (416) 521-7764
Kenora (807) 468-2879
Kingston (613) 547-4338
London (519) 675-7788
Mississauga (416) 897-1551
North Bay (705) 495-8515
Oshawa (416) 576-0171
Ottawa (613) 731-7100
Owen Sound (519) 376-5790
Pembroke (613) 735-3911
Peterborough (705) 743-4172
St. Catharines (416) 684-8543
Sarnia (519) 542-7705
Sault Ste. Marie (705) 945-6815
Scarborough (416) 750-3533
Sudbury (705) 688-3030
Thunder Bay (807) 345-8888
Timmins (705) 264-2354
Toronto Central (416) 326-5800
Waterloo (519) 884-5460
Windsor (519) 254-8654

Or call the inquiries hotline, toll-free, at 1-800-387-5656.

Occupational Health and Safety

Information about the Occupational Health and Safety Act, 1978, and related matters is available from the Ministry of Labour and universities and community colleges throughout Ontario. Occupational Health and Safety Resource Centres are operated by Lakehead University, Laurentian University, Queen's University, the University of Waterloo, the University of Western Ontario, and the Ontario Ministry of Labour.

General Information on Ontario Universities

Admission to Bachelor and First Professional Programs at University

Achievement of the Ontario Secondary School Diploma (OSSD) is now normally required for students entering university directly from secondary school.

An overall average of 60% in six OACs and/or Grade 13 courses is normally the minimum required for consideration. Special requirements for particular programs will be determined by individual universities as at present. Students should be aware, however, that possession of the minimum requirements does not guarantee admission. Also, applicants with good standing are more readily accepted than students with a borderline standing and, for certain programs with limited enrolments, an average of 70% to 80% or more may be required.

The preceding information is intended for students entering university directly from Ontario secondary schools. Other applicants, including those who have been out of school for a time, will be considered by the universities on an individual basis, as at present.

Course Prerequisites

Specific OAC/Grade 13 subject requirements vary according to the university and area of study selected. These are listed for each university under the appropriate degree program, but as the admissions information has been confirmed only for the current year, students are advised to check with their guidance counsellors about any possible changes in subject requirements affecting the 1991-92 academic year.

Course Listings

All programs offered are listed under one of nine subject-area headings. For example, a Bachelor of Arts program in music would be listed under the Fine and Applied Arts heading, while a Bachelor of Arts program in business would be listed under the Social Sciences and Related Courses heading.

In the following example, the Bachelor of Arts program in mathematics and the Bachelor of Science programs in computer science, mathematics, and physics are listed under the Mathematical and Physical Sciences heading. As a Bachelor of Arts program, mathematics is offered only at the four-year honours level; as a Bachelor of Science program, however, it is offered at both the three- and four-year levels. Computer science and physics, also offered as three-year and four-year level Bachelor of Science programs, are not available as Bachelor of Arts programs.

To be eligible for admission to the Bachelor of Arts program in mathematics, applicants must meet the university's general admission requirements and the requirements for a Bachelor of Arts program. For admission to Bachelor of Science programs, applicants must meet the university's general admission requirements as well as the requirements for a Bachelor of Science program.

Mathematical and Physical Sciences

- **Bachelor of Arts**

Four-year honours
Available in: mathematics.
Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Science**

Three-year general/four-year honours
Available in: computer science, mathematics, physics.
Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Early Acceptance

Early acceptance to university may be offered to students before the end of the school year on the basis of their interim OAC or Grades 12 and 13 marks, and on condition that they maintain their standing and complete their year successfully

Application to Enter an Ontario University

How to apply

A student planning to enrol in any year at an Ontario university or Ryerson Polytechnical Institute will submit an application through the

Ontario Universities' Application Centre
P.O. Box 1328
Guelph, Ontario N1H 7P4
Telephone (519) 823-1940
Toll-free 1-800-265-8341

The Centre receives and records applications and student responses to university offers of admission.

Secondary school applicants

These applicants are currently enrolled in full-time OSSD programs with six OACs or Grade 13 in accredited secondary or private schools.

The Centre sends blank application forms (OUAC 101) and fee envelopes to each secondary and private school in Ontario.

Each applicant should:

1. complete the personal data on the form;
2. select and record up to three combinations of university and program;
3. give the completed form and the $18 Application Service Fee in the fee envelope to the school official.

School officials record OAC/Grades 12 and 13 course data on the application form, remove copy 2 for the school records, and send copy 1 to the Application Centre. The Centre acknowledges receipt of each application by forwarding a Verification/Amendment form (OUAC 103) to the appropriate school official.

The Centre also obtains the recommended interim OAC/Grade 13 marks directly from the secondary school concerned.

Other applicants
These applicants (including adults) are not currently enrolled in Ontario secondary schools, but may be applicants who have previously obtained the OSSD or Grade 13, applicants from correspondence or night schools, or applicants from other provinces or countries.

Other applicants may obtain an application form (OUAC 105) from any university or from the Application Centre. Application forms should be completed and submitted to the Ontario Universities' Application Centre along with the Application Service Fee of $18. An applicant may, when applying, choose a maximum of three combinations of university and program. The Centre processes the application and forwards it to the appropriate universities. The applicant must arrange to have supporting academic documents forwarded directly to these universities, quoting the Applicant's Reference Number.

Amendment process
If applicants receive refusals of admission from the universities they have selected, they may add new choices and have their applications forwarded by the Centre to the new universities for adjudication.

University decision concerning the applicant
The university, when it makes an offer of admission to the applicant, includes a response document, which the applicant must complete and return to the Centre. The applicant cannot accept more than one offer of admission. The Centre then processes the response and notifies the one university of acceptance and the other universities of the refusal of their offers. Applicants can change their acceptance to another university at a later date subject to the approval of the university they would like to attend at that time. The applicant must inform the centre in writing of this change in acceptance of universities.

International students
International students who wish to obtain an application form to attend an Ontario university should direct requests to the Ontario Universities' Application Centre, P.O. Box 1328, Guelph, Ontario, Canada N1H 7P4.

Specific inquiries regarding entrance requirements, courses, fees, residences, and other facilities should be directed to specific universities.

The Application Service Fee for international students is $28 in the form of an International Money Order. Cheques made on non-Canadian banks are not accepted. Should a student not send the fee along with the application form, the form will not be processed.

International students should apply as early as possible. Application forms will not be sent to international applicants between July 1 and September 30. Therefore, it is recommended that application should be made as soon as possible after October 1 for entry into university during September of the following year.

Academic documents, quoting the Applicant's Reference Number, should be sent directly to the university, *not* to the Application Centre.

The Application Centre is involved only with the universities located in Ontario. Inquiries about programs in other provinces should be directed to the individual universities or to the appropriate Department of Education.

Schedule of Important Dates – 1990-91
September 4, 1990
"Regular" (OUAC 105) application forms distributed to universities.

October 8, 1990
Commence distribution of (OUAC 101) application material to secondary schools.

December 14, 1990
Date for receipt of (OUAC 101) application forms from the secondary schools.

November 1990 to February 1991
Distribution of (OUAC 103) Verification/Amendment forms to secondary schools will begin as applications are processed.

February 18, 1991
Commence distribution of (OUAC 102) Grades for Early Admission forms to secondary schools.

April 19, 1991
Date for receipt of (OUAC 102) Grades for Early Admission forms from schools that do not have formal examinations in April.

April 26, 1991
Date for receipt of (OUAC 102) Grades for Early Admission forms from schools that do have formal examinations in April.

June 14, 1991
The earliest date by which the candidate may receive offers of early admission, scholarships, and places in residence.

June 28, 1991
Earliest date that universities may require a response to an offer of early admission.

Preliminary Year and Admission from Grade 12
(Procedure is the same as described for full-time OSSD or Ontario Grade 13 students.)
Some universities offer a preliminary or qualifying year for students with sufficient credits towards their OSSD or highly qualified Grade 12 students.

Brescia College (an affiliate of Western) offers a preliminary year. Carleton offers a qualifying university year in the Bachelor of Arts, Bachelor of Science, and Bachelor of Engineering programs. The University of Ottawa offers a pre-university year only in the science and engineering faculty. A similar program of admission from Grade 12 to the first year of a degree program is offered at Lakehead and Laurentian.

Winter Admission

The following universities offer admission into the first year of some degree programs in the winter semester: Guelph (January, May), Lakehead (February), McMaster (February), Ottawa (January), Toronto (January), Erindale College, University of Toronto (February), Trent (January), Waterloo (January), Windsor (January), and York (February).

Mature or Non-Matriculant Students

The admission requirements for mature or non-matriculant students vary. Most universities impose an age minimum of 21 years. Some universities require students to have been away from formal education for a period of time, and some prescribe pre-university course work or special admission tests. In general, mature applicants are expected to have at least adequate standing in the academic work they have undertaken previously and to be able to demonstrate that they have the aptitude for work at the university level.

At many universities, places in full-time programs are filled by early July; therefore, students who are interested in full-time study and are planning to apply as mature or non-matriculant applicants should apply early.

Co-operative Education

Co-operative education formally integrates academic study and paid work experience in co-operative employer environments. The following institutions offer co-op programs. The institutions' listings in the following pages indicate which co-op programs they offer.

Universities offering co-op programs: Brock, Carleton, Guelph, Lakehead, Laurentian (Algoma College), McMaster, Ottawa, Ryerson Polytechnical Institute, Toronto, Waterloo, Western Ontario, Wilfrid Laurier, and Windsor.

Counsellors, teachers, and other educators may obtain further information about co-op education from the Canadian Association for Co-operative Education (CAFCE) Co-op Program Directory, which is available from CAFCE's national office at 1209 King St. West, Suite 203, Toronto, Ontario M6K 1G2. Telephone (416) 535-6993, Fax (416) 535-3994.

Celebrate National Co-op Week from November 4 to 10, 1990.

Graduate, Extension, and Summer Programs

Horizons does not include information on the variety of graduate, extension, and summer programs offered at the university level. Graduate programs normally require honours standing in a four-year undergraduate program as prerequisite. In general, admission requirements for part-time, extension, and summer programs leading to degrees diplomas are the same as for full-time degree programs. Non-credit courses for students not working toward a degr are also available. For further information, check with the admissions office, the extension department, or the gradua school of the university concerned.

Secondary School Liaison and University Information Programs

During the academic year, representatives from each of the 15 universities in Ontario, Ryerson Polytechnical Institute, and the Royal Military College visit over 100 secondary schools across Ontario to take part in university informatio sessions for students, parents, and guidance counsellors, as arranged by local and county boards of education. The purpose of these programs is to provide firsthand information about university admission requirements, programs of stud campus life, facilities, campus tours, and scholarships. The names and addresses of secondary school liaison officers a given in the university sections of this publication. Inquirie are welcome.

Names and Addresses of Ontario Universities, Ryerson, and the Ontario College of Art

Dr. Terrence H. White, President
Brock University
St. Catharines, Ontario L2S 3A1
For general information telephone
(416) 688-5550

Dr. Robin H. Farquhar, President
Carleton University
Ottawa, Ontario K1S 5B6
For general information telephone
(613) 788-7400

Dr. Brian Segal, President
University of Guelph
Guelph, Ontario N1G 2W1
For general information telephone
(519) 824-4120

Dr. R.G. Rosehart, President
Lakehead University
Thunder Bay, Ontario P7B 5E1
For general information telephone
(807) 343-8157
Toll-free 1-800-465-3959 (for Ont., Man., Sask.)

Dr. Charles H. Bélanger, Acting President
Laurentian University
Sudbury, Ontario P3E 2C6
For general information telephone
(705) 675-1151 ext. 3100, 3915
Toll-free 1-800-461-4030

Dr. Geraldine A. Kenney-Wallace, President
McMaster University
Hamilton, Ontario L8S 4L8
For general information telephone
(416) 525-9140 ext. 4787, 4796

Mr. Timothy Porteous, President
Ontario College of Art
100 McCaul Street
Toronto, Ontario M5T 1W1
(416) 977-5311

Dr. Marcel Hamelin, Rector
University of Ottawa
Ottawa, Ontario K1N 6N5
For general information telephone
(613) 564-3928

Dr. David C. Smith, Principal
Queen's University
Kingston, Ontario K7L 3N6
For general information telephone
(613) 545-2217, 545-2218

Commodore E.R. Murray, Commandant and Vice-Chancellor
Royal Military College
Kingston, Ontario K7K 5L0
For general information telephone
(613) 541-6302

Mr. Terence Grier, President
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3
For general information telephone
(416) 979-5036

Mr. Robert Prichard, President
University of Toronto
Toronto, Ontario M5T 1A3
For general information telephone
(416) 978-2190

Dr. John O. Stubbs, President
Trent University
Peterborough, Ontario K9J 7B8
For general information telephone
(705) 748-1215

Dr. D. T. Wright, President
University of Waterloo
Waterloo, Ontario N2L 3G1
For general information telephone
(519) 885-1211 ext. 2265

Dr. K. G. Pedersen, President
University of Western Ontario
London, Ontario N6A 5B8
For general information telephone
(519) 661-2026

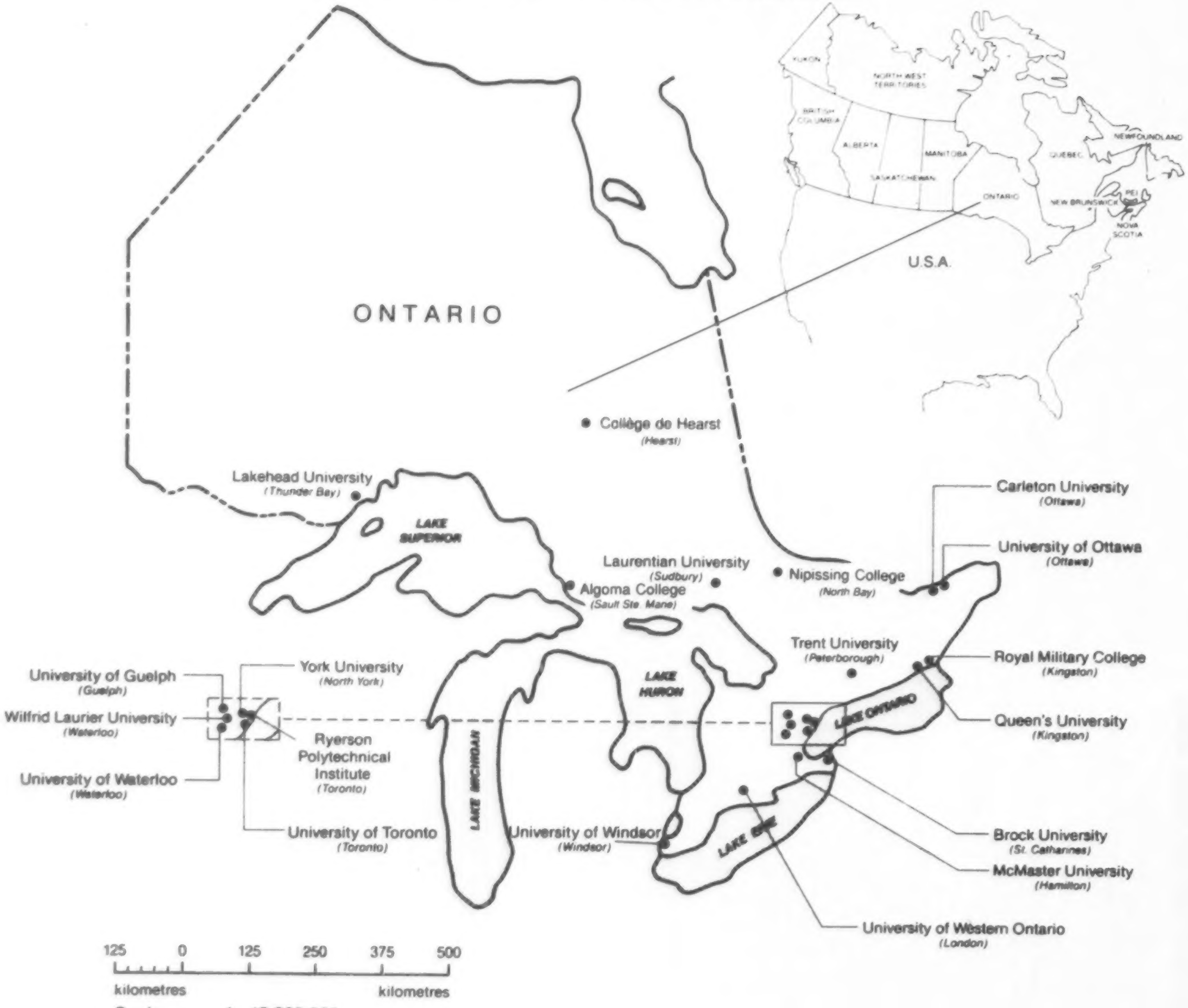
Dr. John A. Weir, President
Wilfrid Laurier University
75 University Ave. West
Waterloo, Ontario N2L 3C5
For general information telephone
(519) 884-1970 ext. 2351, 2385

Dr. R. W. Ianni, President
University of Windsor
Windsor, Ontario N9B 3P4
For general information telephone
(519) 973-7014

Prof. Harry W. Arthurs, President
York University
4700 Keele Street
North York, Ontario M3J 1P3
For general information telephone
(416) 736-5100

Geographic Distribution of Ontario Universities

(Please contact the main campus of each university for location of affiliated colleges.)


YUKON
NORTH WEST TERRITORIES
BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
MANITOBA
ONTARIO
QUEBEC
NEWFOUNDLAND
NEW BRUNSWICK
PEI
NOVA SCOTIA
U.S.A.
ONTARIO
Collège de Hearst (Hearst)
Lakehead University (Thunder Bay)
LAKE SUPERIOR
Laurentian University (Sudbury)
Algoma College (Sault Ste. Marie)
Nipissing College (North Bay)
Carleton University (Ottawa)
University of Ottawa (Ottawa)
Trent University (Peterborough)
Royal Military College (Kingston)
Queen's University (Kingston)
LAKE HURON
LAKE ONTARIO
LAKE MICHIGAN
LAKE ERIE
University of Guelph (Guelph)
Wilfrid Laurier University (Waterloo)
University of Waterloo (Waterloo)
York University (North York)
Ryerson Polytechnical Institute (Toronto)
University of Toronto (Toronto)
University of Windsor (Windsor)
Brock University (St. Catharines)
McMaster University (Hamilton)
University of Western Ontario (London)
125
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125
250
375
500
kilometres
kilometres

Programs available at Ontario universities and Ryerson Polytechnical Institute

Note:
The following chart is a listing of programs offered at Ontario's 16 universities and Ryerson Polytechnical Institute. This is not a comprehensive list.
For information on special programs see the individual entries on pages 103-167.
For information about programs offered at the Ontario College of Art see page 123.

Codes:
● = undergraduate degree program
† = undergraduate diploma program
■ = undergraduate degree and diploma programs
❏ = undergraduate and graduate programs
▲ = undergraduate, graduate and diploma programs
G = graduate study only
M = minor specialization only
* = check with university for details
☐ = co-operative program is available. Check with university for details.

1. Agricultural and Biological Sciences

		Brock (St. Catharines)	Carleton (Ottawa)	Guelph (Guelph)	Lakehead (Thunder Bay)	Laurentian (Sudbury)	McMaster (Hamilton)	Ottawa (Ottawa)	Queen's (Kingston)	Royal Military College (Kingston)	Ryerson (Toronto)	Toronto (Toronto)	Trent (Peterborough)	Waterloo (Waterloo)	Western (London)	Wilfrid Laurier (Waterloo)	Windsor (Windsor)	York (Toronto)
1.1	**Agriculture**																	
1.1.1	Agricultural Business, Economics			▲ ☐														
1.1.2	Agrometeorology			G														
1.1.3	Animal Poultry Science			❏ ☐														
1.1.4	Crop Science			❏ ☐														
1.1.5	Entomology - Apiculture			❏														
1.1.6	Environmental Biology		●	❏ ☐														
1.1.7	Farm Operators and Managers			†														
1.1.8	Food and Dairy Science			●														
1.1.9	Horticulture Science/Business			▲ ☐														
1.1.10	Hydrology			G														
1.1.11	Plant Protection			●														
1.1.12	Resources Management			❏ ☐														
1.1.13	Soil Science			❏ ☐														
1.2	**Biology**																	
1.2.1	Biology, Biological Sciences	❏	❏	❏	❏	❏	❏	❏	❏			●	❏	❏ ☐	●	● ☐	❏	❏
1.2.2	Biotechnology		● ☐				●	❏	❏					*			●	M
1.2.3	Biotechnology and Genetic Engineering		M	G			●	❏	*									
1.2.4	Botany (Plant Sciences)	❏	❏	❏		❏		❏	*			❏	●	*	❏		M	M
1.2.5	Cell Biology		M					❏						*	●			
1.2.6	Cellular and Development Biology		M														❏	
1.2.7	Co-op Biochemistry/Teaching Option													●				
1.2.8	Co-op Biology/Teaching Option													●				
1.2.9	Ecology and Evolution	M	M	●				❏	❏					*	●			M
1.2.10	Epidemiology and Biostatistics														G			
1.2.11	History of Science														❏			
1.2.12	Molecular Biology and Biotechnology		❏	❏			●	❏	❏					*				
1.2.13	Molecular Biology and Genetics			❏			❏	❏	G			●						
1.2.14	Plant Science and Plant Biotechnology			●														
1.2.15	Population and Environmental Biology		M											*			❏	
1.2.16	Premedicine													●			*	
1.2.17	Virology						G		*					*				
1.2.18	Zoology	❏	❏	❏		❏		❏	*			❏	*	*	❏		M	M
1.3	**Biological Sciences: Other**																	
1.3.1	Animal Biology			●														
1.3.2	Biology and Pharmacology						●											
1.3.3	Entomology/Agriculture			❏														
1.3.4	Environmental Protection			●														
1.3.5	Environmental Soil Science			●														

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1.3.6	Fish and Wildlife Biology			❑					*				*					
1.3.7	Fisheries Biology			●														
1.3.8	Great Lakes Biology																●	
1.3.9	Human Biology			❑			*		*			●	*					
1.3.10	Human Kinetics			❑										●				
1.3.11	Marine Biology, Sciences			❑					*				*					
1.3.12	Microbiology, Immunology	M	●	□ ❑	●			G	❑			❑		*	❑		❑	
1.3.13	Nutrition and Food Sciences			□				●			●	❑			●			
1.3.14	Toxicology			❑				G	G			❑		*				
1.3.15	Toxicology and Pharmacology														●			
1.3.16	Veterinary Medicine			❑														
1.3.17	Wildlife Biology			❑					*				*					
2. Education/Physical Education/Recreation																		
2.1	**Education**																	
2.1.1	Art Education				*			*	*				*				*	●
2.1.2	Arts and Science in Teaching	*					G						*					
2.1.3	Chemical Education														G			
2.1.4	Early Childhood Education	●		M							●	*	*		❑		*	■
2.1.5	Education	❑			❑	●	G	❑	■ ❑			❑	●		❑		❑	❑
2.1.6	Elementary Education	❑			❑	■		●	●			●	●		●		●	■
2.1.7	English Co-op Teaching Specialization													●				
2.1.8	French Teaching Specialization							●						□ ●				
2.1.9	Guidance Counselling							❑							G			
2.1.10	Science Co-op Teaching Option													●				
2.1.11	Secondary Education	❑			❑			●	●			●	●	*	●		●	■
2.1.12	Special Education, Exceptional Children	M		M	M			*	*			❑	*		*		G	❑
2.2	**Physical Education and Recreation**																	
2.2.1	Health Studies, Health Care Practice	●			●	●	G		*			●		□ ❑				
2.2.2	Kinesiology, Human Kinetics, Kinanthropology			❑		●	G	❑	❑					□ ❑			❑	M
2.2.3	Physical Education, Physical Health Education	●			❑	●	❑	❑	❑			●		*	❑	●		❑
2.2.4	Recreation	●			●		*	□ ●				●		□ ❑				M
3. Engineering and Applied Sciences																		
3.1	**Applied Sciences**																	
3.1.1	Applied Biochemistry			●														
3.1.2	Applied Chemistry			●														
3.1.3	Applied Geography						❑				●							
3.1.4	Applied Mathematics		●	❑	❑			□ ❑	❑			❑		□ ❑	❑		M	●
3.1.5	Applied Science			❑	*		❑		❑	●		❑		❑			❑	
3.1.6	Architecture		●								●	❑		□ ●				
3.1.7	Earth Science		●	●		●		❑				❑		❑				●
3.1.8	Environmental Health										●			*				
3.1.9	Environmental Hydrogeology													*				
3.1.10	Forestry, Forest Technology				□ ❑							❑						
3.1.11	Geography and Environmental Science	●		❑			*											
3.1.12	Geological and Applied Earth Science	❑						❑	❑			❑		□ ❑				●
3.1.13	Industrial Design		●															
3.1.14	Landscape Architecture			❑							†	●						
3.2	**Engineering**																	
3.2.1	Aeronautical Engineering		G															

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3.2.2	Aerospace Engineering		●								■	❑						
3.2.3	Agricultural Engineering			▨❑														
3.2.4	Bioengineering						G		*									
3.2.5	Biological Engineering			▨❑					*									
3.2.6	Biomedical Engineering						*		G			G						
3.2.7	Ceramic Engineering						●					G						
3.2.8	Chemical Engineering				■	*	❑	▨❑	❑	G	■	❑		▨❑				
3.2.9	Chemical Engineering, Nuclear Option											❑						
3.2.10	Chemical/Biochemical Engineering														❑			
3.2.11	Civil Engineering		❑		■	*		▨❑	❑	❑	■	❑		▨❑	❑		▨❑	
3.2.12	Civil Engineering & Engineering Mechanics						❑											
3.2.13	Civil Engineering and Computer Systems						●											
3.2.14	Computer Engineering		❑				❑	▨●	*	❑		❑		▨❑				
3.2.15	Electrical Engineering		❑		■		❑	▨❑	❑	❑	■	❑		▨❑	❑		▨❑	
3.2.16	Engineering		❑	▨❑	■	*	*		❑			❑		▨❑	G		▨❑	
3.2.17	Engineering and Management		M				●	G	*	❑				▨❑				
3.2.18	Engineering Chemistry								❑									
3.2.19	Engineering Physics				■		❑		❑	●		❑						
3.2.20	Environmental Engineering					●						G		M			▨❑	
3.2.21	Fuels and Materials Engineering		G							●		❑						
3.2.22	Geological Engineering								❑			❑		▨●			▨❑	
3.2.23	Industrial Engineering										■	❑					▨❑	
3.2.24	Management Engineering							▨G						▨❑				
3.2.25	Manufacturing Engineering						●											
3.2.26	Materials Engineering						●								❑		M/G	
3.2.27	Mathematics and Engineering								●					▨●				
3.2.28	Mechanical Engineering		❑		■	*	❑	▨❑	❑	❑	■	❑		▨❑	❑		▨❑	
3.2.29	Metallurgical Engineering					●	❑		❑			❑						
3.2.30	Mining Engineering					●			❑									
3.2.31	Nuclear Engineering						G			G								
3.2.32	Occupational Health and Safety						*					G		*				
3.2.33	Survey Engineering										■							
3.2.34	Systems Design Engineering		❑				*							▨❑				
3.2.35	Water Resources Engineering			▨❑										M				
4. Fine and Applied Arts																		
4.1	**Art, Fine Arts, Theatre**																	
4.1.1	Art Conservation								G									
4.1.2	Art History	●	●	●	*		●	●	❑			❑	*	●	●		●	❑
4.1.3	Art Therapy														†			
4.1.4	Art, Fine Arts	●	M	●	●		●	●	●			❑	M	●	●	●	❑	❑
4.1.5	Arts Administration	M						*				●		●				G
4.1.6	Dance				*		*				†			●	M		*	❑
4.1.7	Drama, Dramatic Art	●	M	❑	*		●		●		†	❑	*	▨●	●	M	●	❑
4.1.8	Drama-in-Education																●	●
4.1.9	Film, Cinema	●	●			M	*		●			●	*	▨●	●	●	❑	❑
4.1.10	Graphic Communications Management										●							
4.1.11	Interior Design										●							
4.1.12	Medical Illustration											●						
4.1.13	Museum Studies											G						

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4.1.14	Music Theatre																●	
4.1.15	Painting	M			*												❑	❑
4.1.16	Photographic Arts							●			●							❑
4.1.17	Radio & Television Arts, Communication Studies										●						❑	*
4.1.18	Scenic Design																●	
4.1.19	Studio Art	●		●			●	●	●			●	M	▨ ●	●		❑	❑
4.1.20	Theatre, Technical/Production	M							*		†			▨ ■				❑
4.1.21	Theatre, Theatre Arts	●	M			●		●	*				M	▨ ●			●	❑
4.2	**Music**																	
4.2.1	Music	●	■	●	●	●	●	❑	●			❑		▨ ●	❑	▨ ■	●	❑
4.2.2	Music Criticism		●				G											
4.2.3	Music Education	●					●	●	●			❑			❑	●	●	●
4.2.4	Music, Ethnomusicology		●					●										●
4.2.5	Music History, Literature	●	●				●	●	●			●			❑	●	●	●
4.2.6	Music Performance, Applied Music	●	●	●	*		*	❑	■			❑			❑	●	●	●
4.2.7	Music Theory, Composition	●	●		*		●	❑	●			❑			❑	●	●	●
4.2.8	Music Therapy													*		●		
4.2.9	Musicology							❑										
5. General Arts and Science																		
5.1	**General Arts and Science**																	
5.1.1	Arts & Science (Special Program)						●											
5.1.2	General Arts	●	●	●	●		●	●	●		†		●	●		●		❑
5.1.3	General Arts and Science	●											●					
5.1.4	General Science	●	●	●	●	●	●	●	●				●	●		●	●	❑
6. Health Professions and Medical Sciences																		
6.1	**Health Professions and Medical Sciences**																	
6.1.1	Anatomy			G			*	G	G			G		▨ ●	G			
6.1.2	Biochemistry, Clinical Biochemistry	❑	●	▨		●	❑	❑	❑			❑	●	▨	❑		❑	M
6.1.3	Biophysics	●	M	▨			G					❑		*	●			
6.1.4	Blood & Cardiovascular Program						G											
6.1.5	Communicative Disorders											G			G			
6.1.6	Dental Surgery											❑			●			
6.1.7	Dentistry											❑						
6.1.8	Design, Measurement and Evaluation						G											
6.1.9	Genetics	M	M				*	❑	❑			❑		*	●			M
6.1.10	Growth and Development			G			G											
6.1.11	Health Administration						*	G				G		▨ *				
6.1.12	Health Care Practice						G											
6.1.13	Medical Biophysics								*			G			G			
6.1.14	Medicine						❑	❑	❑			❑			❑			
6.1.15	Neurosciences			❑			G	G				●						
6.1.16	Nursing				●	●	●	●	●		■	❑			❑		■	
6.1.17	Nursing Education														G			
6.1.18	Occupational Therapy, Physical Therapy, Physioth.				*		●	●	❑			●			❑			
6.1.19	Optometry													❑				
6.1.20	Orthodontics														G			
6.1.21	Pathology			G					G			G			G			
6.1.22	Pharmacology							G	G			❑			❑			
6.1.23	Pharmacy											❑						

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6.1.24	Physiology							❑	G			❑		G	❑			
6.1.25	Pre-Health-Professions Option													●				
6.1.26	Public Health Nursing																†	
6.1.27	Speech Pathology											G						
7. Humanities and Related Courses																		
7.1	**Independent Studies**																	
7.1.1	Independent Studies, Experimental Programs		●	●								●	●	●				●
7.2	**Languages and Literature**																	
7.2.1	Canadian Literature		M									❑			G			
7.2.2	Chinese						*					❑		*			M	*
7.2.3	Classics	●	❑	●	M	●	❑	❑	❑			❑	●	▨●	❑	●	●	●
7.2.4	Communication Arts	●	*					●	●							●	❑	
7.2.5	Comparative Literature		G				●					G	*				●	
7.2.6	Creative Writing																❑	●
7.2.7	Croatian						*							*				
7.2.8	Eighteenth Century Studies						*						*					
7.2.9	English Language and Literature	●	❑	❑	❑	●	❑	❑	❑	❑		❑	●	▨❑	❑	▨●	❑	❑
7.2.10	English Literature and Creative Writing																❑	
7.2.11	English Rhetoric & Professional Writing													▨❑				
7.2.12	French Language and Literature	●	❑	●	●	❑	❑	❑	❑			▨❑	●	▨	❑	●	❑	●
7.2.13	French/Teaching Specialization													▨				*
7.2.14	German Language and Literature	●	❑	●	M	●	❑	●	❑			❑	●	▨	●	●	*	●
7.2.15	Greek Language and Literature	●	❑	●	M	M	●	❑	●			❑	●	▨	❑	●		●
7.2.16	Greek Studies							❑										
7.2.17	Hebrew						*					❑						*
7.2.18	Hispanic Studies						●	❑										●
7.2.19	Humanities																	●
7.2.20	Italian Language and Literature	●	●	●	M	●	●	●	●			❑		M			*	●
7.2.21	Japanese						*		*			●		*			M	*
7.2.22	Journalism		❑								●				G		*	
7.2.23	Latin Language and Literature	●	❑	●	M	M	M	❑	●			❑	●	▨	❑	●	*	●
7.2.24	Linguistics, Applied Linguistics	●	●		M	●	M	❑	●			❑	*		●			●
7.2.25	Mass Communications	●	●						●								●	●
7.2.26	Modern Languages and Linguistics						●						●				*	●
7.2.27	Multicultural Studies																●	
7.2.28	Organizational Communications	●															†	
7.2.29	Polish Language and Literature						*					●		*				*
7.2.30	Portuguese Language and Literature											❑						*
7.2.31	Renaissance Literature											●						
7.2.32	Roman Studies						G	❑	*			●						
7.2.33	Russian Language and Literature	●	●		M	●	●	❑	●			❑		▨	●		*	●
7.2.34	Sanskrit						*											
7.2.35	Second Language Teaching											†			†			
7.2.36	Serbo-Croatian Language and Literature						*					●		*				
7.2.37	Slavic Language and Literature	●					*	❑				❑		▨				
7.2.38	Spanish Language and Literature	●	❑	●	M	●		❑	❑			▨	●	▨	❑	●	*	●
7.2.39	Speech Communication													M				
7.2.40	Translation, Interpretation	M	†			●		▨	●			G						●
7.2.41	Ukrainian Language and Literature						*	❑				●		*				*

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7.2.42	Western Literature and Civilization														●			
7.3	**Philosophy and Religious Studies**																	
7.3.1	Canon Law							❑										
7.3.2	Missionary Sciences							❑										
7.3.3	Philosophy	❑	❑	❑	●	●	❑	❑	❑			❑	●	▨	❑	●	❑	❑
7.3.4	Religion, Religious Studies		❑		M	●	❑	❑	●			❑	*	▨	●	❑	❑	●
7.3.5	Social Communications							●										
7.3.6	Theology, Theological Studies	G					G	❑	❑			❑		*	G	G		
8. Mathematical and Physical Sciences																		
8.1	**Mathematics**																	
8.1.1	Actuarial Science		M		●				*			●		▨	●		●	*
8.1.2	Algebra		❑					❑	❑			▨	*	*				
8.1.3	Analysis		❑					❑	❑			▨	*	*				
8.1.4	Applicable Mathematics			●														
8.1.5	Applied Algebra																❑	
8.1.6	Combinatorics and Optimization		❑				*	*	❑			▨		▨				
8.1.7	Computation						G	❑				▨		*				
8.1.8	Computer Science & Psychology	●					●						●	▨				❑
8.1.9	Computer Science, Computer Studies	●	▨	▨	▨	▨	❑	▨	❑	G	●	❑	●	▨	❑	▨	●	●
8.1.10	Geometry		❑						❑			▨		*				
8.1.11	Logic		M				*	❑	*			●	*	*				
8.1.12	Mathematical Sciences											▨						
8.1.13	Mathematics	●	❑	❑	❑	▨	❑	▨	❑	G		❑	●	▨	❑	▨	❑	❑
8.1.14	Mathematics and Physics	●	●		●		●	●	●	●		▨	●	▨			●	❑
8.1.15	Mathematics and Statistics			❑														
8.1.16	Mathematics for Commerce											▨		*				●
8.1.17	Mathematics/CA/CMA/Business Admin. Options						*						*	▨		●		●
8.1.18	Mathematics/Teaching Option								●			G	●	▨	●			●
8.1.19	Operations Research		●					❑	*			▨		▨				†
8.1.20	Probability		❑					❑	●			▨		*				
8.1.21	Pure Mathematics	●	❑	❑			❑	❑	❑			❑	●	▨	●		❑	❑
8.1.22	Statistics		❑	❑			❑	▨	❑			❑	*	▨	❑	M	❑	M
8.2	**Physics**																	
8.2.1	Astronomy		M			M			❑			❑	*	▨	❑			G
8.2.2	Chemical Physics		●	❑			❑		❑			❑	●	▨			❑	G
8.2.3	Co-op Physics/Teaching Option													●				
8.2.4	Geophysics, Space Physics, Astrophysics		●				▨		❑			❑		▨	❑			❑
8.2.5	Mathematical Physics		●		●		M	●	●			❑	*	*				M
8.2.6	Meteorology											❑						†
8.2.7	Physics	❑	❑	▨	❑	❑	❑	❑	❑	G		❑	❑	▨	❑	●	❑	❑
8.2.8	Physics (Health and Radiation)						❑					❑						
8.2.9	Physics (Theory)		❑	●			●	G				❑		*				
8.2.10	Theoretical Physics and Applied Mathematics		●				●		❑			❑		▨				
8.3	**Physical Sciences: Other**																	
8.3.1	Biological Chemistry							❑										
8.3.2	Chemistry	❑	❑	▨	▨	❑	❑		❑	G		❑	❑	▨	❑	●	❑	❑
8.3.3	Climatology						*							▨				
8.3.4	Co-op Chemistry/Teaching Option													●				
8.3.5	Fuel and Energy Science				M							❑						

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8.3.6	Geology	❑	❑		❑	❑	❑	❑	❑			❑		❑	❑		❑	M
8.3.7	Inorganic Chemistry							❑										
8.3.8	Laboratory Science										■							
8.3.9	Materials Science/Materials Engineering		G				❑			G		❑			❑		❑	
8.3.10	Metallurgy						●		❑			❑						
8.3.11	Organic Chemistry							❑										
8.3.12	Physical Chemistry							❑										
8.3.13	Science, Technology and Society																●	
8.3.14	Survey Science										■	●						
9. Social Sciences and Related Courses																		
9.1	**Business, Commerce, Economics**																	
9.1.1	Accounting, Accountancy	●	M		●		M	●	❑				*	❑		●	❑	❑
9.1.2	Administration and Information Management		M						❑		■							
9.1.3	Administration, Administrative Studies	●			●		M	❑	*			●	●	●	●	●	❑	❑
9.1.4	Administration, Geriatric Care Facilities			*			*											
9.1.5	Administration, Public	❑	❑	❑		†	*	M	G		●	*	●	●	■		■	❑
9.1.6	Administrative and Information Studies														●			
9.1.7	Administrative and Office Management Studies						*						*					
9.1.8	Agricultural Economics			❑														
9.1.9	Business Economics	●		●			●		❑				●		G		●	❑
9.1.10	Business, Business Administration	●	M	M	❑	❑	❑	❑	❑		■	*	●		❑	❑	❑	❑
9.1.11	Commerce		●	●	●	●	●	●	●	●		●					❑	M
9.1.12	Consumer Studies			❑														
9.1.13	Economics	●	❑	❑	❑	●	❑	❑	❑	●		❑	●	❑	❑	●	❑	❑
9.1.14	Engineering and Management		●				●	G	*	❑				G				
9.1.15	Family Studies			❑													●	
9.1.16	Finance	●	M				M	●	❑						❑	●	❑	❑
9.1.17	Hospitality & Tourism Managment										●							
9.1.18	Hotel and Food Administration			●							†							
9.1.19	Human Resources and Labour Relations		M				M		❑									
9.1.20	Industrial, Labour Relations	M	M		●		M	*	G			G	*		❑		†	❑
9.1.21	Industry and Finance			●														
9.1.22	Information Systems and Human Behaviour			●														
9.1.23	Institutional Foodservice Management			●														
9.1.24	International Buisness		M				M	M	❑						G			
9.1.25	International Trade													●				
9.1.26	Management Economics			●														
9.1.27	Management Economics (Industry and Finance)			●														
9.1.28	Management, Management Sciences, Business Management	●	❑	●			G	❑	❑		■	G	*	G	❑	❑	❑	❑
9.1.29	Marketing	●	M		●		M	●	❑			G	*		G	●	❑	❑
9.1.30	Native Management and Economic Development												■					
9.1.31	Office and Administrative Studies						*				■							
9.1.32	Personnel and Administrative Studies	●	M		●		M					*	*	M	❑			
9.1.33	Resource Management			●				M				*					●	
9.1.34	Science & Business													●				
9.2	**Canadian and International Studies**																	
9.2.1	African Studies		M									●						●
9.2.2	American Studies											●						
9.2.3	Asian Studies	●	M				M					❑					●	●

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9.2.4	Canadian Studies	●	❑	●	●	●	M	●	●			●	❑	M		●	●	●
9.2.5	Chinese Studies						*					❑					M	●
9.2.6	Classical Studies, Civilization	●	●	●		M	●	❑	❑			❑	●	▨●	❑	●	●	●
9.2.7	Czech and Slovak Studies											●						
9.2.8	East Asian Studies													M				
9.2.9	Hungarian Studies											●						
9.2.10	Indian, Eskimo, Native Studies		M		*	●	*					●	❑					
9.2.11	Japanese Studies											●					†	
9.2.12	Jewish Studies											●						*
9.2.13	Latin-American, Caribbean Studies								●			▨●	*				●	●
9.2.14	Middle and Near Eastern Studies											▨❑	*	M				
9.2.15	Military and Strategic Studies									●								
9.2.16	Peace Studies						M					●		M				
9.2.17	Soviet, Russian Studies	●	❑						●			❑		▨●				
9.2.18	Third World Studies															●		
9.3	**Food Sciences**																	
9.3.1	Applied Human Nutrition			❑							●							
9.3.2	Dietetics			❑				●			●				●			
9.3.3	Food Engineering			●														
9.3.4	Food Science			▨❑							●				●			
9.3.5	Nutritional Sciences			❑							●	❑			●			
9.4	**History**																	
9.4.1	Ancient History, Civilization	●	●				M	❑	*			●	●	▨●				M
9.4.2	Assyriology											●						
9.4.3	Celtic Studies											●						
9.4.4	Egyptology											●						
9.4.5	History	●	❑	❑	❑	❑	❑	▨❑	❑	❑		❑	❑	▨❑	❑	▨❑	❑	❑
9.4.6	Medieval, Renaissance Studies	●	M					❑	❑			❑	*	▨●				M
9.4.7	Scottish Studies			G														
9.4.8	War Studies									G								
9.5	**Home Economics**																	
9.5.1	Clothing and Textiles, Design Fashion			M							■				●			
9.5.2	Consumer Studies			❑							●							
9.5.3	Family Studies, Family Science			❑							●						●	
9.5.4	Home Economics														●			
9.6	**Political Science**																	
9.6.1	Canadian Politics	❑	❑	❑	*		M	❑	*				*	*				M
9.6.2	International Affairs, Relations, Studies	❑	❑	❑	*		M	❑	*			❑	*	▨M			●	●
9.6.3	International Development		❑	●				G	G			▨●	*					
9.6.4	Political and Economic Science								*	❑			*	▨●				*
9.6.5	Political Science, Politics	❑	❑	❑	●	●	❑	❑	❑	●		▨❑	●	▨❑	❑	▨❑	❑	❑
9.6.6	Social and Political Thought		❑					❑										❑
9.7	**Regional Studies**																	
9.7.1	Community, Urban, Regional Planning	●		G			*		G		●	G		▨❑			❑	G
9.7.2	Environmental Studies	▨●	M	M			G		*			❑	❑	▨●				G
9.7.3	Freshwater Science, Watershed Ecosystems												G	G				
9.7.4	Geography	●	❑	❑	●	●	❑	▨❑	❑		●	▨❑	❑	▨❑	❑	▨❑	❑	❑
9.7.5	Geography and Environmental Studies	●	●				*				●							
9.7.6	Industrial Development													G				
9.7.7	Municipal Administration						*		G								†	

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9.7.8	Northern Studies						M						*					
9.7.9	Resources Conservation											G	*	*	●		●	G
9.7.10	Rural Extension			*														
9.7.11	Social Demography						*		*					*	G			
9.7.12	Urban Studies, Urbanism/Urban Development	▨●	M				G		G			❑	*	❑	●	●	●	❑
9.8	**Social Sciences: Other**																	
9.8.1	Anthropology		❑	●	●	●	❑	*	*			❑	❑	▨●	❑	▨●	●	❑
9.8.2	Applied Women's Studies														†			
9.8.3	Archaeology	●			*		M		*			❑	●	*	M	●		
9.8.4	Archaeology (Classical)							❑										
9.8.5	Child Studies			●														
9.8.6	Clothing and Textiles Design			M														
9.8.7	Cognitive Science								●			●						
9.8.8	Communication, Culture and Society	●	G						●				*				●	
9.8.9	Consumer Studies			▨❑														
9.8.10	Criminology		M					❑	*			❑					■	
9.8.11	Family and Social Relations			▨❑														
9.8.12	Gerontology			▨●			●					G		M/G			†	
9.8.13	Health and Society	●																●
9.8.14	Health Promotion and Education														†			
9.8.15	Information Engineering			●														
9.8.16	Informational Publishing																†	
9.8.17	Labour Studies	M	M				●					●					†	●
9.8.18	Law		*					❑	❑			❑			●		●	❑
9.8.19	Law and Justice					●												
9.8.20	Law and Society																	●
9.8.21	Legal Studies													M				
9.8.22	Library Science				●							G			▨G			
9.8.23	Medicine, Morality and Law											●						
9.8.24	Organization and Career Development																†	
9.8.25	Prevention of Early School Failure														†			
9.8.26	Psychology	●	❑	▨❑	❑	●	❑	❑	❑			❑	●	▨❑	❑	▨❑	❑	❑
9.8.27	Settlement Studies			●														
9.8.28	Social Development Studies													■				
9.8.29	Social Welfare					●	G									M		
9.8.30	Social Welfare Policy						G											
9.8.31	Social Work		❑		❑	●	●				■	G	*	†	❑	G	❑	❑
9.8.32	Social Work (Native Human Services)					●												
9.8.33	Society, Technology and Values											●		M				
9.8.34	Sociology	●	❑	❑	❑	●	❑	❑	❑			❑	●	▨❑	❑	▨●	❑	❑
9.8.35	Women's Studies	M	●	●		M	●	●	●			●	●	M	●	M	†	●

How to use this directory

To find a subject in the chart.

1. locate the desired program name in this index.
2. note the code number that follows this name; and
3. turn back to the appropriate numerically coded listing in the cahart.

For example, "Applied Geography" and a cross-reference, " Geography, Applied" are listed alphabetically in the index, each with the code number "3.1.3". This code number can be found in numerical sequence in the chart, where it will be seen that "Applied Geography" is offered at two of Ontario's universities.

Accountancy, 9.1.1
Accounting, Accountancy 9.1.1
Actuarial Science 8.1.5
Administration and Information Management 9.1.2
Administration, Administrative Studies 9.1.3
Administration, Arts 4.1.5
Administration, Geriatric Care Facilities 9.1.4
Administration, Health 6.1.11
Administration, Municipal 9.7.7
Administration, Public 9.1.5
Administrative Studies, Administration 9.1.3
Administrative Studiesand Personnel 9.1.32
Administrative and Information Studies 9.1.6
Administrative and Office Management Studies 9.1.7
Aeronautical Engineering 3.2.1
Aerospace Engineering 3.2.2
African Studies 9.2.1
Agricultural Business, Economics 1.1.1
Agricultural Economics 9.1.8
Agricultural Engineering 3.2.3
Agricultural and Biological Sciences 1
Agriculture 1.1
Agriculture/Entomology 1.3.3
Agrometeorology 1.1.2
Algebra 8.1.1
American Studies 9.2.2
Analysis 8.1.2
Anatomy 6.1.1
Ancient History, Civilization 9.4.1
Animal Biology 1.3.1
Animal Poultry Science 1.1.3
Anthropology 9.8.1
Apiculture - Entomology 1.1.5
Applicable Mathematics 8.1.3
Applied Algebra 8.1.4
Applied Biochemistry 3.1.1
Applied Chemistry 3.1.2
Applied Geography 3.1.3
Applied Human Nutrition 9.3.1
Applied Linguistics, Linguistics 7.2.24
Applied Mathematics 3.1.4
Applied Mathematics and Theoretical Physics 8.2.10
Applied Science 3.1.5
Applied Sciences 3.1
Applied Women's Studies 9.8.2
Archaeology 9.8.3
Archaeology (Classical) 9.8.4
Architecture 3.1.6
Architecture, Landscape 3.1.14
Art Conservation 4.1.1
Art Education 2.1.1
Art History 4.1.2
Art Therapy 4.1.3
Art, Fine Arts 4.1.4
Art, Fine Arts, Theatre 4.1
Art, Studio 4.1.19
Arts & Science (Special Program) 5.1.1
Arts Administration 4.1.5
Arts and Science in Teaching 2.1.2
Arts, Communication 7.2.4
Arts, General 5.1.2
Asian Studies 9.2.3
Assyriology 9.4.2
Astronomy 8.2.1
Astrophysics, Space Physics, Geophysics 8.2.4
Biochemistry, Clinical Biochemistry 6.1.2
Bioengineering 3.2.4
Biological Chemistry 8.3.1
Biological Engineering 3.2.5
Biological Sciences, Biology 1.2.1
Biology 1.2
Biology and Pharmacology 1.3.2
Biology, Animal 1.3.1
Biology, Biological Sciences 1.2.1
Biology, Cell 1.2.5
Biology, Cellular and Development 1.2.6
Biology, Environmental 1.1.6
Biology, Fish and Wildlife 1.3.6
Biology, Fisheries 1.3.7
Biology, Great Lakes 1.3.8
Biology, Human 1.3.9
Biology, Population and Environmental 1.2.15
Biology, Wildlife 1.3.17
Biomedical Engineering 3.2.6
Biophysics 6.1.3
Biophysics, Medical 6.1.13
Biostatistics and Epidemiology 1.2.10
Biotechnology 1.2.2
Biotechnology and Genetic Engineering 1.2.3
Biotechnology and Molecular Biology 1.2.12
Blood & Cardiovascular Program 6.1.4
Botany (Plant Sciences) 1.2.4
Buisness, International 9.1.24
Business & Science 9.1.34
Business Administration, Business 9.1.10
Business Economics 9.1.9
Business Management, Management Sciences, Management 9.1.28
Business, Agricultural Economics 1.1.1
Business, Business Administration 9.1.10
Business, Commerce, Economics 9.1
Business, Horticulture Science 1.1.9
Canadian Literature 7.2.1
Canadian Politics 9.6.1
Canadian Studies 9.2.4
Canadian and International Studies 9.2
Canon Law 7.3.1
Caribbean, Latin-American Studies 9.2.13
Cell Biology 1.2.5
Cellular and Development Biology 1.2.6
Celtic Studies 9.4.3
Ceramic Engineering 3.2.7
Chemical Education 2.1.3
Chemical Engineering 3.2.8
Chemical Engineering, Nuclear Option 3.2.9
Chemical Physics 8.2.2
Chemical/Biochemical Engineering 3.2.10
Chemistry 8.3.2
Chemistry, Biological 8.3.1
Chemistry, Engineering 3.2.18
Chemistry, Inorganic 8.3.7
Chemistry, Organic 8.3.11
Chemistry, Physical 8.3.12
Child Studies 9.8.5
Chinese 7.2.2
Chinese Studies 9.2.5
Civil Engineering 3.2.11
Civil Engineering & Engineering Mechanics 3.2.12
Civil Engineering and Computer Systems 3.2.13
Civilization and Western Literature 7.2.42
Civilization, Ancient History 9.4.1
Civilization, Classical Studies 9.2.6
(Classical) Archaeology 9.8.4
Classical Studies, Civilization 9.2.6
Classics 7.2.3
Climatology 8.3.3
Clothing and Textiles Design 9.8.6
Clothing and Textiles, Design Fashion 9.5.1
Co-op Biochemistry/Teaching Option 1.2.7
Co-op Biology/Teaching Option 1.2.8
Co-op Chemistry/Teaching Option 8.3.4
Co-op Physics/Teaching Option 8.2.3
Cognitive Science 9.8.7
Combinatorics and Optimization 8.1.6
Commerce 9.1.11
Communication Arts 7.2.4
Communication Studies, Radio & Television Arts 4.1.17
Communication, Culture and Society 9.8.8
Communication, Speech 7.2.39
Communications, Organizational 7.2.28
Communications, Social 7.3.5
Communicative Disorders 6.1.5
Community, Urban, Regional Planning 9.7.1
Comparative Literature 7.2.5
Computation 8.1.7
Computer Engineering 3.2.14
Computer Science & Psychology 8.1.8
Computer Science, Computer Studies 8.1.9
Computer Studies, Computer Science 8.1.9
Conservation, Art 4.1.1
Consumer Studies 9.1.12
Consumer Studies 9.5.2
Consumer Studies 9.8.9
Counselling, Guidance 2.1.9
Creative Writing 7.2.6
Creative Writing and English Literature 7.2.10
Criminology 9.8.10
Croatian 7.2.7
Crop Science 1.1.4
Culture, Communication and Society 9.8.8
Czech and Slovak Studies 9.2.7
Dance 4.1.6
Demography, Social 9.7.11
Dental Surgery 6.1.6
Dentistry 6.1.7
Design, Clothing and Textiles 9.8.6
Design, Industrial 3.1.13
Design, Interior 4.1.11
Design, Measurement and Evaluation 6.1.8
Design, Scenic 4.1.18
Development and Growth 6.1.10
Development, Industrial 9.7.6
Dietetics 9.3.2
Disorders, Communicative 6.1.5
Drama, Dramatic Art 4.1.7
Drama-in-Education 4.1.8
Dramatic Art, Drama, 4.1.7
Early Childhood Education 2.1.4
Earth Science 3.1.7
Earth, Applied and Geological Science 3.1.12
East Asian Studies 9.2.8
Ecology and Evolution 1.2.9
Economic Development and Native Management 9.1.30
Economics 9.1.13
Economics, Agricultural 9.1.8
Economics, Agricultural Business 1.1.1
Economics, Business 9.1.9
Economics, Management 9.1.26
Education 2.1
Education 2.1.5
Education and Health Promotion 9.8.14
Education, Chemical 2.1.3
Education, Early Childhood 2.1.4
Education, Elementary 2.1.6
Education, Music 4.2.3
Education, Nursing 6.1.17
Education, Special; Exceptional Children 2.1.12
Education/Physical Education/Recreation 2
Egyptology 9.4.4
Eighteenth Century Studies 7.2.8
Electrical Engineering 3.2.15
Elementary Education 2.1.6
Energy Science and Fuel 8.3.5
Engineering 3.2
Engineering 3.2.16
Engineering Chemistry 3.2.18
Engineering Physics 3.2.19
Engineering and Applied Sciences 3
Engineering and Management 3.2.17
Engineering and Management 9.1.14
Engineering and Mathematics 3.2.27
Engineering, Aeronautical 3.2.1
Engineering, Aerospace 3.2.2
Engineering, Agricultural 3.2.3
Engineering, Biochemical/Chemical 3.2.10
Engineering, Biological 3.2.5
Engineering, Biomedical 3.2.6
Engineering, Ceramic 3.2.7
Engineering, Chemical 3.2.8
Engineering, Chemical (Nuclear Option) 3.2.9
Engineering, Chemical/Biochemical 3.2.10
Engineering, Civil 3.2.11
Engineering, Civil and Computer Systems 3.2.13
Engineering, Computer 3.2.14
Engineering, Electrical 3.2.15
Engineering, Environmental 3.2.20
Engineering, Food 9.3.3
Engineering, Fuels and Materials 3.2.21
Engineering, Geological 3.2.22
Engineering, Industrial 3.2.23
Engineering, Information 9.8.15
Engineering, Management 3.2.17
Engineering, Management 3.2.24

Engineering, Manufacturing 3.2.25
Engineering, Materials 3.2.26
Engineering, Mechanical 3.2.28
Engineering, Metallurgical 3.2.29
Engineering, Mining 3.2.30
Engineering, Nuclear 3.2.31
Engineering, Survey 3.2.33
Engineering, Systems Design 3.2.34
Engineering, Water Resources 3.2.35
English Co-op Teaching Specialization 2.1.7
English Language and Literature 7.2.9
English Literature and Creative Writing 7.2.10
English Rhetoric & Professional Writing 7.2.11
Entomology - Apiculture 1.1.5
Entomology/Agriculture 1.3.3
Environmental Biology 1.1.6
Environmental Engineering 3.2.20
Environmental Health 3.1.8
Environmental Hydrogeology 3.1.9
Environmental Protection 1.3.4
Environmental Science, Geography 3.1.11
Environmental Soil Science 1.3.5
Environmental Studies 9.7.2
Environmental and Population Biology 1.2.15
Epidemiology and Biostatistics 1.2.10
Ethnomusicology, Music 4.2.4
Evaluation, Design and Measurement 6.1.8
Evolution and Ecology 1.2.9
Exceptional Children, Special Education 2.1.12
Experimental Programs, Independent Studies 7.1.1
Family Science, Family Studies 9.5.3
Family Studies 9.1.15
Family Studies, Family Science 9.5.3
Family and Social Relations 9.8.11
Farm Operators and Managers 1.1.8
Fashion, Clothing and Textiles, Design 9.5.1
Film, Cinema 4.1.9
Finance 9.1.16
Finance and Industry 9.1.21
Fine and Applied Arts 4
Fish and Wildlife Biology 1.3.6
Fisheries Biology 1.3.7
Food Engineering 9.3.3
Food Science 9.3.4
Food Sciences 9.3
Food and Dairy Science 1.1.7
Food and Hotel Administration 9.1.18
Forestry, Forest Technology 3.1.10
French Language and Literature 7.2.12
French Teaching Specialization 2.1.8
French/Teaching Specialization 7.2.13
Freshwater Science, Watershed Ecosystems 9.7.3
Fuel and Energy Science 8.3.5
Fuels and Materials Engineering 3.2.21
General Arts 5.1.2
General Arts and Science 5
General Arts and Science 5.1
General Arts and Science 5.1.3
General Science 5.1.4
Genetic Engineering and Biotechnology 1.2.3
Genetics 6.1.9
Genetics and Molecular Biology 1.2.13
Geography 9.7.4
Geography and Environmental Science 3.1.11
Geography and Environmental Studies 9.7.5
Geography, Applied 3.1.3
Geological Engineering 3.2.22
Geological and Applied Earth Science 3.1.12
Geology 8.3.6
Geometry 8.1.10
Geophysics, Space Physics, Astrophysics 8.2.4
Geriatric Care Facilities, Administration 9.1.4
German Language and Literature 7.2.14
Gerontology 9.8.12
Graphic Communications Management 4.1.10
Great Lakes Biology 1.3.8
Greek Language and Literature 7.2.15
Greek Studies 7.2.16
Growth and Development 6.1.10
Guidance Counselling 2.1.9
Health Administration 6.1.11
(Health and Radiation), Physics 8.2.8
Health Care Practice 2.2.1
Health Care Practice 6.1.12
Health Physical Education, Physical Education 2.2.3
Health Professions and Medical Sciences 6
Health Professions and Medical Sciences 6.1
Health Promotion and Education 9.8.14
Health Studies, Health Care Practice 2.2.1
Health and Society 9.8.13
Health, Environmental 3.1.8
Hebrew 7.2.17
Hispanic Studies 7.2.18
History 9.4
History 9.4.5
History of Science 1.2.11
History, Art 4.1.2
Home Economics 9.5
Home Economics 9.5.4
Horticulture Science/Business 1.1.9
Hospitality & Tourism Managment 9.1.17
Hotel and Food Administration 9.1.18
Human Behaviour and Information Systems 9.1.22
Human Biology 1.3.9
Human Kinetics 1.3.10
Human Kinetics 2.2.2
Human Resources and Labour Relations 9.1.19
Humanities 7.2.19
Humanities and Related Courses 7
Hungarian Studies 9.2.9
Hydrogeology, Environmental 3.1.9
Hydrology 1.1.10
Illustration, Medical 4.1.12
Independent Studies 7.1
Independent Studies, Experimental Programs 7.1.1
Indian, Eskimo, Native Studies 9.2.10
Industrial Design 3.1.13
Industrial Development 9.7.6
Industrial Engineering 3.2.23
Industrial, Labour Relations 9.1.20
Industry and Finance 9.1.21
(Industry and Finance), Management Economics 9.1.27
Information Engineering 9.8.15
Information Management and Administration 9.1.2
Information Studies, Administrative 9.1.6
Information Systems and Human Behaviour 9.1.22
Informational Publishing 9.8.16
Inorganic Chemistry 8.3.7
Institutional Foodservice Management 9.1.23
Interior Design 4.1.11
International Affairs, Relations, Studies 9.6.2
International Buisness 9.1.24
International Development 9.6.3
International Trade 9.1.25
Italian Language and Literature 7.2.20
Japanese 7.2.21
Japanese Studies 9.2.11
Jewish Studies 9.2.12
Journalism 7.2.22
Justice and Law 9.8.19
Kinesiology 2.2.2
Kinesiology, Human Kinetics, Kinanthrop 2.2.2
Kinetics, Human 1.3.10
Laboratory Science 8.3.8
Labour Relations and Human Resources 9.1.19
Labour Relations, Industrial 9.1.20
Labour Studies 9.8.17
Landscape Architecture 3.1.14
Languages and Literature 7.2
Latin Language and Literature 7.2.23
Latin-American, Caribbean Studies 9.2.13
Law 9.8.18
Law and Justice 9.8.19
Law and Society 9.8.20
Law, Canon 7.3.1
Legal Studies 9.8.21
Library Science 9.8.22
Linguistics, Applied Linguistics 7.2.24
Linguistics, Modern Languages 7.2.26
Literature and English Language 7.2.9
Literature and German Language 7.2.14
Literature and Greek Language 7.2.15
Literature and Italian Language 7.2.20
Literature and Latin Language 7.2.23
Literature and Polish Language 7.2.29
Literature and Serbo-Croatian Language 7.2.36
Literature and Slavic Language 7.2.37
Literature and Spanish Language 7.2.38
Literature and Ukranian Language 7.2.41
Literature, Canadian 7.2.1
Literature, Comparative 7.2.5
Literature, Music History 4.2.5
Literature, Renaissance 7.2.31
Logic 8.1.11
Management Economics 9.1.26
Management Economics (Industry and Finance) 9.1.27
Management Engineering 3.2.24
Management and Engineering 9.1.14
Management, Engineering 3.2.17
Management, Graphic Communications 4.1.10
Management, Institutional Foodservice 9.1.23
Management, Management Sciences, Business Management 9.1.28
Management, Resource 9.1.33
Management, Resources 1.1.12
Managers and Farm Operators 1.1.8
Manufacturing Engineering 3.2.25
Marine Biology, Sciences 1.3.11
Marketing 9.1.29
Mass Communications 7.2.25
Materials Engineering 3.2.26
Materials Science/Materials Engineering 8.3.9
Mathematical Physics 8.2.5
Mathematical Sciences 8.1.12
Mathematical and Physical Sciences 8
Mathematics 8.1
Mathematics 8.1.13
Mathematics and Engineering 3.2.27
Mathematics and Physics 8.1.14
Mathematics and Statistics 8.1.15
Mathematics for Commerce 8.1.16
Mathematics, Applicable 8.1.3
Mathematics, Applied 3.1.4
Mathematics, Pure 8.1.21
Mathematics/CA/CMA/Business Admin. Options 8.1.17
Mathematics/Teaching Option 8.1.18
Measurement, Evaluation and Design 6.1.8
Mechanical Engineering 3.2.28
Medical Biophysics 6.1.13
Medical Illustration 4.1.12
Medicine 6.1.14
Medicine, Morality and Law 9.8.23
Medicine, Veterinary 1.3.16
Medieval, Renaissance Studies 9.4.6
Metallurgical Engineering 3.2.29
Metallurgy 8.3.10
Meteorology 8.2.6
Microbiology, Immunology 1.3.12
Middle and Near Eastern Studies 9.2.14
Military and Strategic Studies 9.2.15
Mining Engineering 3.2.30
Missionary Sciences 7.3.2
Modern Languages and Linguistics 7.2.26
Molecular Biology and Biotechnology 1.2.12
Molecular Biology and Genetics 1.2.13
Morality, Medicine and Law 9.8.23
Multicultural Studies 7.2.27
Municipal Administration 9.7.7
Museum Studies 4.1.13
Music 4.2
Music 4.2.1
Music Criticism 4.2.2
Music Education 4.2.3
Music History, Literature 4.2.5
Music Performance, Applied Music 4.2.6
Music Theatre 4.1.14
Music Theory, Composition 4.2.7
Music Therapy 4.2.8
Music, Ethnomusicology 4.2.4
Musicology 4.2.9
(Native Human Services), Social Work 9.8.32
Native Management and Economic Development 9.1.30
Native Studies, Indian, Eskimo 9.2.10
Near and Middle Eastern Studies 9.2.14
Neurosciences 6.1.15
Northern Studies 9.7.8
Nuclear Engineering 3.2.31
Nuclear Option, Chemical Engineering 3.2.9
Nursing 6.1.16
Nursing Education 6.1.17
Nursing, Public Health 6.1.26
Nutrition and Food Sciences 1.3.13
Nutritional Sciences 9.3.5
Occupational Health and Safety 3.2.32
Occupational Therapy, Physical Therapy, Physioth. 6.1.18
Office Management Studies, Administrative 9.1.7
Office and Administrative Studies 9.1.31

Operations Research 8.1.19
Optimization and Combinatorics 8.1.6
Option, Pre-Health-Professions 6.1.25
Optometry 6.1.19
Organic Chemistry 8.3.11
Organization and Career Development 9.8.24
Organizational Communications 7.2.28
Orthodontics 6.1.20
Painting 4.1.15
Pathology 6.1.21
Peace Studies 9.2.16
Personnel and Administrative Studies 9.1.32
Pharmacology 6.1.22
Pharmacology and Biology 1.3.2
Pharmacology and Toxicology 1.3.15
Pharmacy 6.1.23
Philosophy 7.3.3
Philosophy and Religious Studies 7.3
Photographic Arts 4.1.16
Physical Chemistry 8.3.12
Physical Education and Recreation 2.2
Physical Education, Physical Health Education 2.2.3
Physics 8.2
Physics 8.2.7
Physics (Health and Radiation) 8.2.8
Physics (Theory) 8.2.9
Physics and Mathematics 8.1.14
Physics, Chemical 8.2.2
Physics, Engineering 3.2.19
Physics, Mathematical 8.2.5
Physiology 6.1.24
Physioth., Occupational and Physical Therapy 6.1.18
Plant Biotechnology and Plant Science 1.2.14
Plant Protection 1.1.11
Plant Science and Plant Biotechnology 1.2.14
(Plant Sciences) Botany 1.2.4
Polish Language and Literature 7.2.29
Political Science 9.6
Political Science, Politics 9.6.5
Political and Economic Science 9.6.4
Politics, Canadian 9.6.1
Politics, Political Science 9.6.5
Population and Environmental Biology 1.2.15
Portuguese Language and Literature 7.2.30
Poultry, Animal Science 1.1.3
Practice, Health Care 6.1.12
Pre-Health-Professions Option 6.1.25
Premedicine 1.2.16
Prevention of Early School Failure 9.8.25
Probability 8.1.20
Professional Writing & English Rhetoric 7.2.11
Protection, Environmental 1.3.4
Protection, Plant 1.1.11
Psychology 9.8.26
Psychology & Computer Science 8.1.8
Public Health Nursing 6.1.26
Pure Mathematics 8.1.21
Radio & Television Arts, Communication Studies 4.1.17
Recreation 2.2.4
Regional Planning, Community, Urban 9.7.1
Regional Studies 9.7
Religion, Religious Studies 7.3.4
Religious Studies, Religion 7.3.4
Renaissance Literature 7.2.31
Research, Operations 8.1.19
Resource Management 9.1.33
Resources Conservation 9.7.9
Resources Management 1.1.12
Roman Studies 7.2.32
Rural Extension 9.7.10
Russian Language and Literature 7.2.33
Safety, Occupational and Health 3.2.32
Sanskrit 7.2.34
Scenic Design 4.1.18
Science & Business 9.1.34
Science Co-op Teaching Option 2.1.10
Science, Actuarial 8.1.5
Science, Animal and Poultry 1.1.3
Science, Applied 3.1.5
Science, Crop 1.1.4
Science, Dairy and Food 1.1.7
Science, Earth 3.1.7
Science, Food 9.3.4
Science, Food and Dairy 1.1.7
Science, Geological and Applied Earth 3.1.12
Science, Laboratory 8.3.8
Science, Political and Economic 9.6.4
Science, Soil 1.1.13
Science, Survey 8.3.14
Science, Technology and Society 8.3.13
Sciences, Marine Biology 1.3.11
Sciences, Mathematical 8.1.12
Sciences, Missionary 7.3.2
Sciences, Nutrition and Food 1.3.13
Sciences, Nutritional 9.3.5
Scottish Studies 9.4.7
Second Language Teaching 7.2.35
Secondary Education 2.1.11
Serbo-Croatian Language and Literature 7.2.36
Settlement Studies 9.8.27
Slavic Language and Literature 7.2.37
Social Communications 7.3.5
Social Demography 9.7.11
Social Development Studies 9.8.28
Social Sciences and Related Courses 9
Social Sciences: Other 9.8
Social Welfare 9.8.29
Social Welfare Policy 9.8.30
Social Work 9.8.31
Social Work (Native Human Services) 9.8.32
Social and Family Relations 9.8.11
Social and Political Thought 9.6.6
Society and Health 9.8.13
Society and Law 9.8.20
Society, Technology and Values 9.8.33
Sociology 9.8.34
Soil Science 1.1.13
Soviet, Russian Studies 9.2.17
Space Physics, Geophysics Astrophysics 8.2.4
Spanish Language and Literature 7.2.38
Special Education, Exceptional Children 2.1.12
(Special Program), Arts & Science 5.1.1
Speech Communication 7.2.39
Speech Pathology 6.1.27
Statistics 8.1.22
Statistics and Mathematics 8.1.15
Strategic and Military Studies 9.2.15
Studies, Eighteenth Century 7.2.8
Studies, Greek 7.2.16
Studies, Hispanic 7.2.18
Studies, Multicultural 7.2.27
Studies, Roman 7.2.32
Studio Art 4.1.19
Survey Engineering 3.2.33
Survey Science 8.3.14
Systems Design Engineering 3.2.34
Teaching Option/Co-op Biochemistry 1.2.7
Teaching Option/Co-op Biology 1.2.8
Teaching Option/Co-op Chemistry 8.3.4
Teaching Option/Co-op Physics 8.2.3
Teaching Option/Mathematics 8.1.18
Teaching Specialization, French 2.1.8
Teaching, Arts and Science in 2.1.2
Teaching, Second Language 7.2.35
Technical/Production, Theatre 4.1.20
Technology and Values, Society 9.8.33
Technology, Forest 3.1.10
Theatre, Technical/Production 4.1.20
Theatre, Theatre Arts 4.1.21
Theology, Theological Studies 7.3.6
Theoretical Physics and Applied Mathematics 8.2.10
(Theory), Physics 8.2.9
Therapy, Art 4.1.3
Third World Studies 9.2.18
Tourism Managment & Hospitality 9.1.17
Toxicology 1.3.14
Toxicology and Pharmacology 1.3.15
Translation, Interpretation 7.2.40
Ukranian Language and Literature 7.2.41
Urban Studies, Urbanism/Urban Development 9.7.12
Urbanism/Urban Development, Urban Studies 9.7.12
Veterinary Medicine 1.3.16
Virology 1.2.17
War Studies 9.4.8
Water Resources Engineering 3.2.35
Watershed Ecosystems, Freshwater Science 9.7.3
Western Literature and Civilization 7.2.42
Wildlife Biology 1.3.17
Women's Studies 9.8.35
Writing, Creative 7.2.6
Zoology 1.2.18
Biological Sciences: Other 1.3
Physical Sciences: Other 8.3

rock University

Catharines

sident: Dr. Terrence H. White

rolment 1989-90

	Undergraduate	Graduate
l-time	5 211	83
rt-time	3 988	638

culties, Schools, and Institutes

culty of Education
culty of Arts
culty of Mathematics and Science
culty of Urban and Environmental Studies
culty of Administrative Studies
culty of Physical Education
nd Recreation
ncordia Lutheran Seminary (affiliated)

neral Admission Requirements

e minimum requirement for admission to st-year studies is an OSSD/OSSHGD ceptable to the university, with six AC/Grade 13 credits and an overall erage of 60%. However, higher averages e generally required, especially for selec-e programs. The 1989-90 requirement for n-limited enrolment arts and science ograms at Brock was 69%.

One credit in mathematics is strongly commended for students planning to ajor in administrative studies, business onomics, economics, geography, geology, sychology, sociology, or urban and environ-ental studies. An English credit is required r all programs except mathematics and cience programs, where it is recom-ended. Since admission requirements are bject to change, it is recommended that udents contact the university with their ecific inquiries.

roof of Proficiency in English

ternational student applicants whose first nguage is not English are required to emonstrate proficiency in English, normally y presenting results showing a high level of uccess in the Test of English as a Foreign anguage (TOEFL), from the Educational esting Service, Princeton, New Jersey.

Normally, only those students with a score f 550 or better will be considered for admis-ion. International student applicants whose rst language is not English must write an nglish language test before registration. Students who do not achieve an acceptable core may be required to enrol in a special English program and take a reduced course oad.

Early Admission

Students are encouraged to apply as soon as possible. Those with the appropriate average and subjects who graduate from a semestered secondary school in January will be offered early admission when their final marks are confirmed. All others will be offered early admission in mid-June, based on their interim marks. See the section *General Information on Ontario Universities* for details of application procedures and deadlines.

Biological Sciences

- **Bachelor of Science**

Three-year general/four-year honours
Available in: biochemistry, biological sciences.

Admission requirements
See *General Admission Requirements.* Also required are biology, chemistry, and either physics or mathematics; English is strongly recommended.

Education/Physical Education/ Recreation

- **Bachelor of Education**

The Faculty of Education provides a one-year program leading to an Ontario Teacher's Certificate (OTC) and a Bachelor of Education (B.Ed.) degree. The basic admission requirement is an undergraduate degree from an approved university. An experience profile is also used in the admissions process. Each student is assigned to a counselling group at the college, as well as to a teaching centre located in a regional school (Niagara/ Hamilton area). Educational theory is applied through ten weeks of practice teaching at the primary/junior, junior/intermediate, or intermediate/senior grade levels.

Education courses are also available to undergraduate students. Consult the university calendar for details.

- **Bachelor of Arts/Bachelor of Education (Child Studies)**

For those who plan to teach at the nursery school, kindergarten, or primary/junior levels, Brock offers integrated academic and professional training in a concurrent B.A./B.Ed. degree program (limited enrolment). Child studies, a pass B.A. degree program, also focuses on the theoretical and the practical. Courses include child psychology and development, the family, schools and society, observational research, and the needs of the special child.

In co-operation with Niagara, Lambton, and Mohawk colleges of applied arts and technology, a credit-transfer formula has been devised for those admitted to the concurrent B.A./B.Ed. program.

Admission requirements
An OAC/Grade 13 English credit is compulsory. Enrolment is limited in the concurrent B.A./B.Ed. program; an overall average of at least 80% is required. The B.A. program in child studies requires a minimum of 75% in six OAC/Grade 13 credits.

- **Bachelor of Physical Education**

Three-year general/four-year honours
Brock's program is unique in that it emphasizes a movement approach to physical education, based primarily on Rudolph Laban's theories of movement. Students may select additional elective courses in the areas of adapted movement studies, coaching, child movement studies, health, and the psychology/sociology of sport.

- **Bachelor of Recreation and Leisure Studies**

Three-year general/four-year honours
This program of study is designed to meet the growing need for people to administer and develop programs in recreation and leisure. Students will be required to take core courses in the philosophy and principles of recreation, community recreation programming, administration and supervision, sociology, psychology, and interpersonal and organizational behaviour. All students take part in supervised practicum experiences and field work. Work terms are arranged in a number of areas, including such special populations as senior citizens, the young, and disabled persons.

Admission requirement
OAC English 1 is mandatory. Enrolment in year 1 physical education is limited to 160 delared majors, and year 2 is restricted to 100 students.

Fine and Applied Arts

- **Bachelor of Arts**

Three-year general/four-year honours
Available in: film studies, fine arts, music, theatre, visual arts, dramatic literature.

Admission requirements
See *General Admission Requirements.* OAC English 1 is mandatory. An audition is required for theatre majors. For solo performance in music, Royal Conservatory Grade 8 is the recommended prerequisite; an audition is also required. Students intending to major in visual arts are requested to submit a portfolio of their work. Fine and applied arts students must fulfil, as a condition of graduation, the second-language requirement prescribed for all Humanities registrants (see *Humanities and Related Courses, "Admission requirements").*

Humanities and Related Courses

- **Bachelor of Arts**

Three-year general/four-year honours
Available in: Applied language studies, Canadian studies, Canadian and European community studies, classics (Greek and Latin), English, French, Germanic and Slavic studies, history, Italian, liberal studies, philosophy, Spanish, teaching English as a second language.

Admission requirements
See *General Admission Requirements.* All humanities majors must fulfil a second-language requirement. At least one course in a language other than English must be completed unless the student is majoring in Germanic and slavic studies (in which case an English credit fulfils the requirements).

Mathematical and Physical Sciences

• Bachelor of Science

Three-year general/four-year honours
Available in: biochemistry, biological sciences, chemistry, computer science and information processing, environmental science, geological sciences, mathematics, physical geography, physics, preprofessional studies for the health sciences.

Admission requirements
All programs – see *General Admission Requirements;* biological sciences – also required are biology, chemistry, and either mathematics or physics (English is strongly recommended); chemistry – also required are chemistry, physics, and two OAC/Grade 13 credits in mathematics (English is recommended); computer science and information processing – compulsory are one mathematics credit (minimum grade 65%), and an overall average of 65% (English is recommended); environmental science – biology, chemistry, mathematics (English is strongly recommended); geological sciences – also required are any two of biology, physics, geology, or chemistry (English and mathematics are strongly recommended); mathematics – also required are two credits in mathematics (a third mathematics credit and a credit in English are strongly recommended); physics – also required are chemistry, physics, and two credits in mathematics (a third credit in mathematics and a credit in English are strongly recommended); physical geography – OAC/Grade 13 credit in science required (credits in geography, mathematics, and English are strongly recommended).

Social Sciences and Related Courses

• Bachelor of Administration

Honours program
Brock's administrative studies program is designed for students interested in business and government careers. Although the program is professionally oriented, it is based on social sciences disciplines, especially in the first two years. During the final two years of the honours program, students specialize in one of eight areas: accounting, computer science, finance, general management, human resources management, marketing, public administration, or quantitative analysis. Lectures, seminars, case studies, and field work are involved.

Admission requirements
An acceptable OAC/Grade 13 English credit is compulsory (mathematics recommended). A minimum average of 70% was required for entry into the honours program in 1989-90, and this standard is likely to rise.

Bachelor of Accounting
This program is offered both as a regular four-year program and on a co-operative work-study basis. It is fully accredited by the Institute of Chartered Accountants of Ontario.

Admission requirements
Regular program: OAC/Grade 13 English and two mathematics with 70% in six credits for consideration. Co-op program: same as above, with at least 80% in six credits for consideration.

• Bachelor of Arts – Faculty of Social Sciences

Three-year general/four-year honours
Available in: applied linguistics, Asian studies, child studies, communication studies, economics, environmental science, geography, health studies, labour studies, politics, psychology, sociology, and urban and environmental studies.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

• Bachelor of Business Economics

General program
Offered jointly by the departments of economics and administrative studies, this degree program is designed for students who wish to combine the study of economic and management theory.

Admission requirements
OAC English 1 is compulsory (mathematics is recommended).

• Bachelor of Science

Three-year general/four-year honours
Available in: environmental science.

Admission requirements
See *General Admission Requirements.* Biology, chemistry, English, and mathematics are recommended.

• Urban and Environmental Studies (Institute of)

General and honours
This program combines an interdisciplinary focus on urban and environmental studies and a sound background in the natural and social sciences. Combined degree programs are offered in conjunction with the departments of biological sciences, chemistry, economics, geography, geological sciences, politics, and sociology.

Admission requirements
OAC English 1 is mandatory.

Co-op program
The institute offers a co-op program that gives students the opportunity for practical experience in their chosen field, with degree credit. Co-op students are placed in government agencies, private firms, and other organizations involved in urban and environmental affairs. Full-time students who are majoring in urban and environmental studies and who have successfully completed year 2 are eligible for the program. Enrolment is limited.

Special Programs

• Extradepartmental Studies
The university offers a variety of degree credit courses that do not fall under the auspices of existing departments. Although a student cannot major in extradepartmental studies, the courses may be taken for credit as electives in any program.

• General and Integrated Studies
Students who wish to diversify their studies over two or more subject areas, and who do not want to tie themselves to a combined major, may plan a general or an integrated program. All such programs must be approved by the appropriate dean or designate, and by the Registrar's Office.

• Certificate Programs
Brock's politics department offers a seven-course program leading to a certificate in public administration. This program is specifically designed for persons already employed in the public sector who wish to embark on part-time studies.

A certificate in urban and environmental studies is also available upon completion of six approved courses, with an overall average of at least 70%.

• Department of Applied Language Studies
Throughout the school year this department offers English as a second language (ESL) courses designed to develop the English speaking and writing ability of those for whom English is not a native language. Remedial (non-credit) and skill enhancement (single-term, half-credit) courses accommodate students at varying levels of English proficiency.

An intensive English-language program (IELP) has been devised, which prepares international students in English language study and academic orientation skills, thereby facilitating the transition to attendance at a Canadian university. Fourteen-week courses run in the fall, winter, and spring, while a six-week summer course is also available.

Brock's program in teaching English as a second language (TESL), not to be confused with the Ontario Ministry of Education certificate program, includes a study of the changes that have taken place in the

glish language and present theories of
L instruction and the related field of lin-
istics, practical application of English
guage instruction, and the social, psycho-
gical, historical, and descriptive features of
English language.
The TESL program is offered in two
ges. During three years, students take
oretical courses to earn a B.A. (TESL).
e second stage is a one-year B.Ed.
ESL) program; under the supervision of in-
uctors from the Department of Applied
nguage Studies, students enrol in cour-
s at Brock's Faculty of Education and
ceive practical training in the teaching of
glish as a second language.
For more information, contact the director
the Department of Applied Language
udies at the university.

esidence 1989-90
ock has three student residences.
udents living in DeCew and Queenston
sidences must purchase a meal plan.
proximately 1 014 students can be
commodated in total. Rooms are
signed on a random selection (lottery)
sis; however, applicants with interim
erages of 80% or higher are guaranteed a
ace in residence.

oom Fees:

eCew Residence

ngle	$1 960
uble	$1 760

ueenston Residence

ngle	$1 860
uble	$1 660

llage Residence

ngle	$2 200

eal Plan Fees:

eCew Residence
arriott meal plans)

meals/week	$1 900
meals/week	$1 862
meals/week	$1 768

ueenston Residence
eneral Hospital meal plans)
eclining balance meal card

ption I	$1 250
ption II	$1 500

cholarships and Financial Assistance
rock entrance scholarships are automat-
ally awarded on the basis of interim
ademic marks; no application is neces-
ry. In 1989-90, students entering year 1
th an 82% average were awarded $500,
d those with averages exceeding 90%
ceived $1 500.
Government assistance is available to full-
d part-time students in the form of grants
d/or loans. (For more information concern-
g these programs see the introductory sec-
on on *Financial Assistance for Students.*)

Questions about scholarships, bursaries, awards, and loan programs should be directed to the Student Awards Office or the Registrar's Office.

Tuition Fees 1989-90 (including incidental fees)
Full- and part-time students $327.50 per course. A full-year program consisting of five courses is $1 637.50.

International students: (new students) $1 116 per course. Five full courses $5 580.

Further Information
Specific inquiries regarding admissions should be directed to
Mr. Keith Rae
Associate Registrar – Admissions
or Ms. Linda Vanderburg
Admissions Officer
Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550, ext. 3434/3566

Information concerning student awards and loans may be obtained from
Mrs. Anne Stavina (OSAP inquiries)
Financial Aid Office
or
Mr. Roger Reynolds (scholarship inquiries)
Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

General inquiries about Brock University, its programs, and its information sessions in Ontario high schools should be directed to
Mrs. Barbara Anderson
Ms. Ronika Fraser
External Relations Office
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550 ext. 3245

Carleton University

Ottawa

President: Dr. Robin H. Farquhar

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	12 643	1 322
Part-time	4 537	1 119

Faculties, Schools, and Institutes
Faculty of Arts
Faculty of Engineering
Faculty of Graduate Studies and Research
Faculty of Science
Faculty of Social Sciences
Institute of Biochemistry
Institute of Canadian Studies
Institute of Soviet and East European Studies
Institute of Women Studies
School of Architecture
School of Business
School of Computer Science
School of Continuing Education
School of Industrial Design
School of International Affairs
School of Journalism
School of Public Administration
School of Social Work

General Admission Requirements
For the qualifying university year: OSSD with a minimum 70% average. A minimum of ten credits taken at the Grades 11 and 12 advanced or enriched level must be presented.

For the first year of a degree program: OSSD including six OACs or equivalent with a minimum 60% average (65% for honours and some professional programs).

Bachelor of Arts (from Grade 12)
OSSD or OSSGD with a minimum 70% average, including two of the following from Grade 12: English, a language other than English, and mathematics. A minimum of ten credits, taken at the Grades 11 and 12 advanced or enriched level, must be presented.

Bachelor of Arts (from an OSSD)
OSSD including six OACs or equivalent with a minimum 60% average (65% for honours). For all majors, an OAC in English is strongly recommended. For a major in mathematics, OAC algebra and geometry and OAC calculus must be presented. For majors in biology and economics, OAC algebra and geometry and OAC calculus are strongly recommended. For a major in psychology, English is recommended. For a major in Canadian studies, French is recommended.

Bachelor of Science (from Grade 12)

OSSD with a minimum 70% average and an appropriate preparation in mathematics (including Grade 12 mathematics), chemistry, and physics. A minimum of ten credits, taken at the Grades 11 and 12 advanced or enriched level, must be presented.

Bachelor of Science (from an OSSD)

OSSD including six OACs with a minimum 60% average (65% for honours) and credits in OAC algebra and geometry and calculus, and two sciences. While biology, chemistry, geology, and physics are the subjects normally accepted as sciences, the university will consider other courses on an individual basis. Prospective students should note that, while only a 60% general average is required for admission, they should have at least 60% or third-class honours in the mathematics and science subjects offered.

Limited-Enrolment Admission

Because of limited enrolment in certain programs, holding the minimum admission requirements can only establish an applicant's eligibility for selection by the university. This is particularly true for admission to the Bachelor of Architecture, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Engineering, Bachelor of Journalism, and Bachelor of Industrial Design programs.

Agricultural and Biological Sciences

• Bachelor of Arts

Three-year pass/four-year honours

Available in: biology.

Admission requirements

See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year major

Available in: biology.

Four-year honours

Available in: biochemistry, biology.

Admission requirements

See *General Admission Requirements*, "Bachelor of Science".

Engineering and Applied Sciences

• Bachelor of Architecture

A five-year program leading to a Bachelor of Architecture degree and offering a highly varied experience for the student in lectures, seminars, projects, and workshops.

Admission requirements

OSSD including six OACs or equivalent with a minimum 65% average and credits in OAC algebra and geometry, calculus, and physics. Applicants are required to submit a portfolio, a biographical résumé, and a 500-word typewritten statement outlining reasons for wishing to study architecture at Carleton. Interviews will be given only at the discretion of the Admissions Committee.

Note: This is a limited-enrolment program.

• Bachelor of Engineering

Four years, including one-and-one-half years of foundation studies in mathematics, physics, chemistry, and engineering sciences and two-and-one-half years of specialization in civil, electrical, or mechanical engineering. For computer-systems engineering the first, and to some extent the second, year provide the foundation studies, followed by two years of specialization. Aerospace engineering students follow mechanical engineering until the final year and a half, when they specialize in one of two streams of aerospace studies.

Grade 12 requirements for admission

OSSD with a minimum 70% average and an appropriate preparation in chemistry, physics, and Grade 12 mathematics. A minimum of ten credits taken at the Grades 11 and 12 advanced or enriched level must be presented.

OSSD requirements for admission

OSSD including six OACs or equivalent with a minimum 65% average and credits in OAC algebra and geometry and calculus, chemistry, and physics.

Note: This is a limited-enrolment program. An OAC in English or *français* is recommended.

• Bachelor of Industrial Design

A four-year program, industrial design embraces all aspects of human environment that are conditioned by industrial production.

Admission requirements

OSSD including six OACs or equivalent with a minimum 65% average and credits in OAC algebra-geometry and calculus, chemistry, and physics. Applicants may be requested to attend an interview. Submission of a portfolio is required.

Note: This is a limited-enrolment program.

Fine and Applied Arts

• Bachelor of Arts

Three-year pass/four-year honours

Available in: architecture (honours only), art history, film studies, music.

Admission requirements

See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Music

Four-year honours

A four-year program designed principally to promote an intellectual and aesthetic understanding of music within a broad liberal arts framework. Although individual performance instruction is required throughout the four years as an adjunct to academic study, the areas of major concentration offered are music history/musicology and theory/composition.

Admission requirements

OSSD including six OACs or equivalent with a minimum 65% average. It is expected that students entering the B.Mus. program would have OAC music, the appropriate level of conservatory music, or both. OAC English is strongly recommended.

• Diploma in Music

This five-course program is designed to attract individuals who have a background in performance on a musical instrument or voice, and/or have been involved in the teaching of music, and who desire additional academic qualifications.

Admission requirements

OSSD including six OACs or equivalent with an adequate level of performance. Special consideration will be extended, under mature matriculation regulations, to other applicants.

Humanities and Related Courses

• Bachelor of Arts

Three-year pass

Available in: art history, classical civilization/classics (Greek, Latin), English, film studies, French, German, Italian, linguistics, mass communication, music, philosophy, religion, Russian, Spanish.

Four-year honours

Available in: architecture, art history, classical civilization/classics (Greek, Latin), English, film studies, French, German, Italian, linguistics, mass communication, philosophy, religion, Russian, Spanish.

Admission requirements

See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Journalism

Honours program

The aim of this four-year program is not to train technologists, but to give students the ability to investigate, interpret, and communicate intelligently in any of the mass media. A student can also combine honours level work in arts, science, or commerce with professional training in journalism.

Admission requirements

OSSD including six OACs or equivalent with a minimum 65% average. OAC English is strongly recommended.

Note: This is a limited-enrolment program.

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year pass

Available in: computer mathematics, mathematics.

Four-year honours
Available in: computer mathematics, mathematics, operations research, statistics.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

- **Bachelor of Computer Science**

A four-year honours program in computer science. The program is designed with five areas of specialization: software, hardware, theory of computing, scientific applications, and management and business systems. A five-year co-operative program is also available.

Admission requirements
OSSD including six OACs or equivalent with a minimum 65% average, including OAC algebra and geometry and calculus. Physics is required for the hardware and scientific applications areas of specialization and is recommended for the remaining areas.
Note: This is a limited-enrolment program.

- **Bachelor of Science**

Three-year major/four-year honours
Available in: biology, chemistry, computer mathematics, environmental science (honours only), geology, integrated science studies[†], mathematics, operations research, physics, statistics (honours only).

Admission requirements
See *General Admission Requirements,* "Bachelor of Science".

Social Sciences and Related Courses

- **Bachelor of Arts**

Three-year pass
Available in: Canadian studies, classical civilization/classics (Greek, Latin), criminology and criminal justice, directed interdisciplinary studies, economics, geography, history, law, political science, psychology, sociology, women's studies.

Four-year honours
Available in: anthropology, Canadian studies, classical civilization/classics (Greek, Latin), criminology and criminal justice, directed interdisciplinary studies, economics, geography, history, law, political science, psychology, sociology, Soviet and East European studies, women's studies.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

- **Bachelor of Commerce**

A four-year honours program in management studies to prepare students for management positions in business or government. Some specialization is available in accounting, business information systems, finance, human resources management, marketing, and operations management.

Admission requirements
OSSD including six OACs or equivalent with a minimum 65% average and credits in OAC algebra and geometry and calculus. OAC English is recommended.
Note: This is a limited-enrolment program.

- **Bachelor of Public Administration**

A four-year honours program providing a general education to familiarize public servants and students contemplating a career in government service with the main organizational, political, economic, and legal elements of the public service environment.

Admission requirements
OSSD including six OACs or equivalent with a minimum 65% average. OAC English is strongly recommended.
Note: This is a limited-enrolment program.

- **Bachelor of Arts**

Four-year honours
Available in: geography, psychology.

Admission requirements
See *General Admission Requirements,* "Bachelor of Science".

Special Programs

- **Certificate in English Language and Composition**

This five-course in-service program is intended primarily for practising teachers who wish to upgrade their knowledge of those areas of language and writing theory that underlie the new Ontario Guidelines and support documents.

Admission requirements
A university degree or teaching certificate.

- **Certificate in French Language Studies**

A six-course program to permit people with some knowledge of French to achieve a high level of proficiency.

Admission requirements
OSSD including six OACs or equivalent with a 60% overall average and completion of an intermediate level university French course.

- **Certificate in Law Enforcement Studies**

This six-course program is designed primarily for persons employed in the areas of law enforcement, national security, or corrections who wish to take university courses.

Admission requirements
OSSD including six OACs or equivalent with a 60% overall average, or mature applicant status.

- **Certificate in Public Service Studies**

A six-course program designed for public employees who seek special training in public service studies at the undergraduate level.

Admission requirements
OSSD including six OACs or equivalent with a 60% overall average, or mature applicant status.

- **Certificate in the Teaching of English as a Second Language**

A five-course program including theory and practice in teaching English as a second language and various optional courses.

Admission requirements
An undergraduate degree in linguistics or another subject, or extensive experience in teaching.

- **Diploma in Music**

This five-course program is designed to attract individuals who have a background in performance on a musical instrument or voice, and/or have been involved in the teaching of music, and who desire additional academic qualifications.

Admission requirements
OSSD including six OACs or equivalent with a 60% overall average, or mature applicant status.

- **Integrated Science Studies**

A Bachelor of Science major or honours program designed for those who wish to develop an understanding of the scientific method and at the same time to acquire a knowledge of the humanities, social sciences, or certain areas of engineering.

Admission requirements
See *General Admission Requirements,* "Bachelor of Science".

Residence 1989-90

Single rooms $3 730
Double rooms $3 350

Scholarships and Financial Assistance

Government assistance is available to full- and part-time students in the form of grants and/or loans.

For further information concerning government assistance see the introductory section on *Financial Assistance for Students* or check with the university's Student Awards Office. The Student Awards Officer will also have details on bursaries and scholarships offered by the university.

Tuition Fees 1989-90

(including incidental fees)

Full-time students
Arts, commerce, public administration, journalism, music, science, computer science $1 648.30
Architecture, engineering, industrial design $1 768.30
Qualifying year $2 071.30

[†] See *Special Programs* section for details.

Part-time students (per subject, including incidental fees)
Degree and non-degree programs
$317.84 full credit, $158.92 half-credit

Further Information

Inquiries about admission should be directed to
Office of Admissions
Room 315, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 788-3663
Toll-free 1-800-267-7366

Inquiries about student awards and loans should be directed to
Awards Office
Room 202, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 788-3600

Inquiries about university information programs for secondary schools should be directed to
Student Liaison Office
Room 315, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 788-3663
Toll-free 1-800-267-7366

University of Guelph

Guelph

President: Brian Segal

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	10 618	1 189
Part-time	1 926	211

Faculties, Schools, and Institutes

College of Arts
College of Biological Science
College of Family and Consumer Studies
College of Physical and Engineering Science
College of Social Science
Ontario Agricultural College
Ontario Veterinary College
Faculty of Graduate Studies
Office of Research
University School of Rural Planning and Development
University School of Continuing Education
Office for Educational Practice
Guelph Centre for Equine Research
School of Engineering
School of Hotel and Food Administration
School of Human Biology
School of Landscape Architecture
Centre for Food Security
Centre for International Programs
Gerontology Research Centre
Centre for Information Technology Research
Centre for Genetic Improvement of Livestock
Soil and Water Conservation Centre

General Admission Requirements

Applicants should qualify for an OSSD with standing in specific OACs or an OSSHGD with standing in specific Grade 13 subjects as required by the particular degree program. All applicants must present OAC English/*anglais* 1 or its equivalent.

Ontario secondary school students seeking admission to the first semester of all programs leading to a bachelor's degree at the University of Guelph may present either an OSSD or OSSHGD.

Students presenting the OSSD must include a minimum of six OACs. An overall average of at least 60% in six OACs is the minimum required for admission consideration.

The length of time taken by an applicant to complete the OSSD will not of itself be a determining factor in making decisions on admission. Students completing the OSSD in four years will not be given preference in admission over those completing the program in five years or less, providing the latter have proceeded normally through the program without repeating any courses or credits.

Bachelor of Arts

Year 5 subject requirements – OAC English 1 and five additional credits. Students are strongly encouraged to offer a credit in mathematics or a credit in French (or another language) among the additional five credits. Also, students planning to enter programs in the social or mathematical sciences are advised to include a mathematics course such as calculus.

Semester one is common to both honours and general students. Thus the selection of a final program may be delayed until the second semester. Semester one students must normally take one 100 level course from each of two different departments in the College of Arts and one 100 level course from each of two different departments in the College of Social Science.

The general program is designed to provide a sound liberal education, allowing for varying degrees of specialization in one or more subjects and requiring intensive study at a senior level.

The honours program, consisting of eight semesters, is designed to provide intensive study in one or two subject areas while at the same time ensuring a complementary breadth of education.

Bachelor of Science

One credit in calculus, one credit in chemistry, two credits from biology, physics, or algebra and geometry, and two additional credits.

Students contemplating admission to the Doctor of Veterinary Medicine program should include the following courses in their final year of study: calculus, biology, physics, and chemistry.

Students in the general and honours Bachelor of Science programs take the same basic courses in the first and second semesters. Thus the final selection of a general or a specific honours program may be delayed until the third semester. The general program offers general training in biological sciences, chemistry, physics, and mathematical science, whereas in the honours program the student has the following options: single major; major and minor; biological science; physical science; specialized programs. Course options in the general (six-semester) program and honours (eight-semester) program are given under specific subject areas. See the calendar for full details.

Fall Semester Admission

Studies begin in September. Fall semester admission to all programs may be granted to candidates who satisfy in full the general entrance requirements.

Winter Semester Admission

Studies begin in January. Under an agreement with the Ontario Ministry of Education, the University of Guelph may admit to the first semester students who are in the process of completing their final secondary school credits for graduation in January. To be considered, students must show promising scholastic ability, must be enrolled in eir senior secondary school credits for the rst time, and must present an estimated inimum overall average of 64%. These stuents are admitted directly from secondary chool and begin study at the university in arly January. The following degree rograms offer January admission: arts, aplied sciences, agriculture, commerce, uman kinetics, engineering, and sciences. Candidates who have, for various reasons, elayed entry to the university may also pply at this time. Admission may only be ranted to candidates who satisfy in full the eneral program entrance requirements. he university will grant the University of Guelph Matriculation Certificate should the tudent not be eligible to receive the OSSHGD. Students should refer to the unergraduate calendar or admissions andbook for complete details about winter dmission.

pring Semester Admission
Studies begin in May. Spring admission to he agricultural science, applied science, rts, commerce, human kinetics, and cience programs may be granted to canidates who satisfy the general entrance equirements. Students who are completing heir final secondary school credits for raduation in June may be considered if hey meet the following criteria: an estimated inimum overall average of 64%; emonstration of promising scholastic bility; enrolment in senior secondary school redits for the first time. Students accepted nder the Spring Admission Plan are ranted an OSSD or the University of Guelph Matriculation Certificate. An OSSD will only be granted when students can arange a suitable timetable with the principal f their school to complete the required redit hours before spring semester registraion. Students who complete secondary chool in January may wish to apply.

Early Acceptance
(Acceptance for September on the date agreed to by the Ontario Universities Council on Admissions. See the *General Information on Ontario Universities* section of this publication.)

Early acceptance to all programs may be granted to candidates who satisfy the general entrance requirements in full, are enrolled in their final year for the first time, and have an estimated minimum average of 60%.

Agricultural and Biological Sciences

• Bachelor of Science and Bachelor of Science (Agriculture)

Three-year general
Available in: biological science areas.

Four-year honours (specialization)
Available in: animal biology, biology, botany, ecology, entomology, entomology with apiculture, environmental protection, environmental soil science, fisheries biology, food science (co-op option), food and dairy science, human biology, marine biology, microbiology (co-op option), molecular biology and genetics, nutritional sciences, physical geography, plant science and plant biotechnology, psychology, toxicology, wildlife biology, zoology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Science in Agriculture

Honours program
This eight-semester degree program offers six different professional development areas. Careers may be pursued in the areas of environmental management, resource use, animal production systems, plant production systems, and food product development. Successful entry into one of these career areas can be accessed through the following majors: agricultural economics (co-op option), animal science (co-op option), crop science (co-op option), environmental biology, horticultural science, horticultural science and business (co-op option), plant protection, resources management (co-op option), and soil science (co-op option). Students will take a common curriculum during the first two semesters and then select a major before the third semester.

The curriculum also provides an opportunity for students to elect, if they so wish, a minor that will complement their selection of a major. Students wishing to concentrate their elective courses in a particular area are advised to consult the schedule of studies for the various minors available in the program.

Minors are available in agricultural business, animal science, applied climatology, biotechnology-agriculture, international agriculture, resource economics, resources management, and rural extension.

Admission requirements
OAC English I, calculus, one credit in biology, chemistry, or physics, and two additional credits.

Although students are required to have the credits specified in the admission requirements, they should have credits in the following courses as optimum preparation in their final year: a) agricultural economics – OAC English 1, calculus, biology, one additional mathematics, and two other credits; b) all other majors – OAC English 1, calculus, biology, chemistry, a second mathematics or physics as appropriate, and another credit.

Applicants who lack a specific Grade 13 subject requirement, but who have a minimum 70% overall final year standing, are also encouraged to apply for admission.

• Associate Diploma in Agriculture

This four-semester program is designed to give students an appreciation of science and its application to agriculture. After a common first semester, students specialize in one of three divisions: agribusiness, farm operators and managers, or horticulture (co-op option) with an emphasis in fruit and vegetable production, landscape, or turf management.

Admission requirements
The minimum academic requirement for admission is an OSSGD, OSSD, or equivalent.

Applicants should include a credit in mathematics from the senior division at the Grade 12 graduating level. Applicants who do not meet the mathematics requirement, but who otherwise have a good academic record and agricultural experience, may be considered for admission.

• Doctor of Veterinary Medicine

Eight semesters; course of study prescribed. Students are selected for admission to a pre-veterinary year of two semesters, from which they may proceed to the first semester of the program leading to the Doctor of Veterinary Medicine degree, veterinary medicine program. Therefore, candidates should ensure that they satisfy the admission requirements as specified for the pre-veterinary year.

Application procedure
Application forms are available upon request from the Admissions Section, Office of the Registrar, Level 3, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Application forms must be submitted no later than February 1 of the year for which admission to the pre-veterinary year is sought.

Academic requirements
Applicants who have completed one or more academic years of an Ontario university level program or the equivalent, including the following specific course requirements, are eligible to apply to the pre-veterinary year: biological sciences –two semester courses; chemistry – two semester courses; mathematics – one semester course (calculus or statistics with a calculus prerequisite); physics – one semester course; humanities or social sciences – two semester courses; electives – two semester courses.

Education/Physical Education/Recreation

• Bachelor of Science in Human Kinetics

Honours program
Eight semesters. A human kinetic studies program with emphasis on the areas of scientific application to human activity. Based firmly on the biological and physical sciences; studies include anatomy, anthropology, biomechanics, biophysics, genetics, nutrition, physiology, psychology, and sociology. Interdisciplinary subject-matter includes kinesiology, exercise physiology, and the scientific measurement of human performance.

Admission requirements
One credit in calculus, one credit in chemistry, two credits from algebra and

geometry, biology, physics, and two additional credits (biology strongly recommended).

Applicants are advised to include biology and one credit in English in their final year of studies. Applicants who lack one specific final year subject requirement, but who have a high overall academic standing, are also encouraged to apply for admission.

Engineering and Applied Sciences

• Bachelor of Landscape Architecture

Honours program
Ten semesters. The first four semesters are largely devoted to study and exploration in basic design, landscape design, urban planning, and the natural sciences. In the final six semesters emphasis is placed on professional courses in landscape design, planning, and construction, but with the addition of social sciences and humanities.

Admission requirements
One credit in biology, English, and mathematics are required. One credit from the following group: geography, visual arts, French or *français* or another language, and two additional credits. Chemistry and physics recommended.

Applicants must complete background information sheets that will be forwarded to them after the April 1 application deadline. Interviews may be required. A portfolio of related creative work must be submitted.

Application procedure
Application forms are available from the Admissions Section, Office of the Registrar, Level 3, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Deadline for the submission of applications is April 1 of the year for which admission is sought. Academic transcripts and other supporting documents must be submitted no later than June 15, following the April 1 deadline for submission of the applications.

• Bachelor of Science

Four-year honours (specialization)
Available in: applicable mathematics, applied biochemistry (co-op option), applied chemistry (co-op option), biochemistry (co-op option), biophysics (co-op option), chemical physics, chemistry (co-op option), computing and information science (co-op option), earth science, mathematics, physics (co-op option), statistics, theoretical physics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Science (Engineering)

Honours program
Eight semesters. Students in this program obtain a liberal engineering education that enables them to undertake the solution of engineering problems of the biological world and the associated environment of soil, water, and atmosphere. Core subjects, combined with liberal elective opportunities, give an understanding of the environment in which food is produced and human activity takes place. This understanding is used to develop the capability to design machines, structures, and systems to operate within the environment.

Students must select a major area of study in one of the following: agricultural, biological, environmental, food, information, or water resources.

Admission requirements
Calculus, algebra and geometry, physics, chemistry, and two additional credits (biology is recommended).

Fine and Applied Arts

• Bachelor of Arts

Three-year general/four-year honours
Available in: drama, fine art, music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: classical studies, English, French, German, Greek, history, humanities, Italian, Latin, philosophy, Spanish.

Four-year honours
Available in: classical studies, English, French, German, history, Italian, Latin, philosophy, Spanish.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general
Available in: computing and information science, mathematics, statistics.

Four-year honours
Available in: computing and information science, information systems: human behaviour, mathematical science (minor honours only), mathematics, statistics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Broad general training in biological sciences, chemistry, mathematical sciences, and physics.

Four-year honours
Available in: applicable mathematics, applied biochemistry, applied chemistry, biochemistry, biophysics, chemical physics, chemistry, computing and information science, earth science, mathematics, MPC^2, physics, science, statistics, theoretical physics, toxicology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science". Students who have an average of at least 80% may enter MPC^2, an entry-level one-year program for students interested in mathematics, physics, chemistry, and computer science.

Social Sciences and Related Courses

• Bachelor of Applied Science

Honours program
Five programs are offered in this eight-semester degree program: family and social relations, consumer studies, applied human nutrition, child studies, or gerontology. The program is interdisciplinary and provides a distinctive integrated focus of applied science in each of the five majors. Courses from the traditional disciplines in other colleges of the university are coupled with courses offered by faculty members in applied science whose own backgrounds reflect the interdisciplinary nature of the programs. Laboratory, practicum, and field experiences enhance the students' opportunities to grasp the contributions of the social, physical, and biological sciences to significant facets of human behaviour and experience, whether in family, community, or educational settings or in the marketplace.

Students may enter the program in the spring, fall, or winter semesters. Applied human nutrition and child studies may be entered only in September. Upon admission or following one or two semesters in the program, students select one of the five major areas of study.

Admission requirements
One credit in mathematics (calculus strongly recommended), one credit in chemistry or biology, one additional credit chosen from the following group: English, *français*, biology, chemistry, mathematics, or physics, and three additional credits.

Applicants are advised to include calculus in their final year program of studies. Students are advised to consult the schedule of studies for the B.A.Sc. program in the university calendar to determine the appropriate selection of OAC credits for the major area of proposed study.

• Bachelor of Arts

Three-year general
Available in: Canadian studies, economics, geography, international development, management economics, political studies, psychology, settlement studies, sociology/anthropology, women's studies.

Four-year honours
Available in: agricultural economics, biology (minor honours only), business administration (minor honours only), Canadian

studies, consumer studies (minor honours only), economics, environmental studies (minor honours only), family and child studies (minor honours only), geography, information systems and human behaviour, international development, management economics, political studies, psychology, rural extension (minor honours only), settlement studies (minor honours only), sociology/anthropology, women's studies (minor honours only).

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Four-year honours
Available in: physical geography, psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Commerce

Honours program
Eight semesters. Students select one of five major areas of study: agricultural business, hotel and food administration, institutional foodservice management, management economics in industry and finance, or marketing. The program is interdisciplinary and draws on the humanities, social sciences, and food, physical, and biological sciences. It is designed to give students a broad exposure to the basic disciplines (e.g., economics, psychology, or sociology) and a sound professional management education with a focus on specific industry sectors or management functions that prepare graduates to assume responsibility in management and business. The early semesters are devoted to instruction in the basic disciplines; the later semesters are devoted to more professional studies. Students who complete these majors may be given credit on a subject-for-subject basis for courses in the first year of an MBA program.

Admission requirements
One OAC in mathematics; one OAC from the following group: English, chemistry, or a second language; and four additional credits. Recommendations and notes: (a) hotel and food administration and institutional foodservice management majors: applicants who wish to obtain the optimum preparation are advised to include chemistry and English in their studies. Due to the nature of the hotel and food administration and institutional foodservice management majors, a background information sheet will be used to assist in the selection of candidates. An applicant is accepted for admission on the basis of academic performance and a review of hospitality experience as shown in the background information sheet submitted to the admissions committee at its request. **The application deadline date for the hotel and food administration and institutional foodservice management majors is April 1.**
(b) agricultural business, management economics in industry and finance, and marketing majors: applicants are advised to include calculus in their studies.

Special Programs
AKADEMIA
AKADEMIA is a first-year program with an integrated arts and science curriculum and a living-learning component based on specially designed residence arrangements. The program will suit qualified applicants who want to pursue a broad-based liberal education before making a commitment to specialize. Entry to this first-year experience is through the B.A. or B.Sc. degree program. and a minimum average of 75% is required.

• General Studies Program
The objective of the general studies program is to provide persons the opportunity to take university courses before registering in a specific degree program or to take university courses for general interest with no immediate intention of registering in a degree program. The general studies program does not lead toward a specific undergraduate degree at the University of Guelph. Students may register for full- or part-time studies. Contact Admissions, Office of the Registrar.

Admission requirements
Applicants must be at least 21 years of age and have been out of secondary school for at least two years.

• Co-operative Education Programs
Co-operative education formally integrates the student's academic study with work experience in co-operating employer organizations. The usual plan is for the student to alternate periods of study with periods of work in appropriate fields of business, industry, government, social services, and the professions. Progress on the job is monitored by the institution and is supervised and evaluated by both the employer and the institution.

Programs offered
Co-operative education programs are available in agricultural business, agricultural economics, agricultural engineering, agriculture (associate diploma), animal science, applied biochemistry, applied chemistry, applied microbiology, biochemistry, biological engineering, biophysics, business, chemistry, child studies, computing and information science, consumer studies (food), crop science, dairy science, family and social relations, food science, gerontology, horticultural science, horticulture, microbiology, physics, psychology, resources management, soil science, and water resources engineering.

Admission requirements and information
Applicants may apply to the co-op program at two points: directly from secondary school or, if spaces are available, in the third or fourth semester. Transfer students from another university, either from traditional academic or co-op programs, should apply to the admissions office. High school students entering co-op must have an average of at least 70%. To participate in the program, applicants must be either Canadian citizens or permanent residents. Enrolment in the programs will be limited, and the number of students admitted is generally dependent on the employment market.

For additional information contact
B.A. McCallum
Associate Director,
Work Study Programs
Counselling and Student Resource Centre
University of Guelph
Guelph, Ontario N1G 2W1

Residence Fees 1989-90

Single students
For all but apartment-style residences (per semester)
Single room $1 055
Double room $955

Married students (townhouse)
Furnished $400 per month
Unfurnished $390 per month

Meal plans (per semester)

	Fall	Winter
Large plan	$875	$885
Medium plan	$800	$810
Small plan	$730	$740

Students accommodated in all but apartment-style residences are required to select one of the above meal plans. These plans are also available to students accommodated in apartment-style residences and to those living off campus. A semester, for room and board purposes, will terminate on the date announced for conclusion of examinations.

Tuition Fees 1989-90
(Including incidental fees.) The tuition fees listed apply to Canadian students and those with permanent resident status. Fees are subject to change.

Full-time students per semester:
Associate Diploma in Agriculture $344.58
Bachelor of Applied Science $879.58
Bachelor of Arts $878.58
Bachelor of Commerce $879.58
Bachelor of Landscape Architecture $947.58
Bachelor of Science $879.58
Bachelor of Science (Agriculture) $883.58
Bachelor of Science (Engineering) $947.58
Bachelor of Science (Human Kinetics) $879.58
Doctor of Veterinary Medicine (1st term) $883.58
General Studies $878.58

Further Information

Admission inquiries should be directed to
Admissions, Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 821-2130

Information and application forms for student awards and loans may be obtained from
Awards, Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1

Inquiries regarding university information programs or campus visits for secondary schools should be directed to
Admissions, Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 821-2300 or 821-2130

Lakehead University

Thunder Bay

President: Dr. R.G. Rosehart

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	3 665	148
Part-time	2 021	118

Faculties, Schools, and Institutes
Faculty of Arts and Science
Faculty of Professional Studies
School of Business Administration
School of Education
School of Engineering
School of Forestry
School of Nursing
School of Outdoor Recreation
School of Physical Education and Athletics

General Admission Requirements

The standard for admission to a degree program at Lakehead University is the successful completion of an OSSD or OSSHGD including six OACs or equivalent, with a minimum overall average of at least 60%. In addition to obtaining this general level of academic maturity, candidates are required to include in their senior high school programs certain subjects required from specific majors. For example, OAC/Grade 13 English is required for a Bachelor of Arts program. These specific requirements are noted in the university's calendar.

Bachelor of Arts

Admission to first year of the arts degree programs requires satisfactory completion of an OSSD or OSSHGD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one OAC/Grade 13 English in their program. Honours Bachelor of Arts – music – music majors should have Grade 8 level of performance or the equivalent. Honours Bachelor of Arts – fine arts (visual arts) – in order to determine the ability and potential of a student seeking entry into the program a portfolio must be submitted to the Department of Visual Arts by the end of May for September admission. French majors – one OAC/Grade 13 French required. B.A. (geography)/Honours Bachelor of Outdoor Recreation – same as arts. Admission to a degree program in the Department of Mathematical Sciences requires credit in English, calculus, and at least one of algebra, algebra and geometry, and finite mathematics or functions and relations, in addition to other admission requirements. Honours Bachelor of Social Work – same as arts.

Bachelor of Science

Admission to the first year of the science degree program requires satisfactory completion of an OSSD or OSSHGD, including six OACs, or equivalent, with a minimum overall average of 60%. Applicants must include OAC/Grade 13 English and calculus, as well as three courses selected from algebra, algebra and geometry, functions and relations, finite mathematics, chemistry, physics, and biology. Students considering a science program should include in their secondary school program a pattern of subjects consistent with their planned university major. Applicants to the Bachelor of Science (natural science) program may be eligible for admission without some of the course requirements listed above. Admission to a degree program in the Department of Mathematical Sciences requires credit in at least one of algebra, algebra and geometry, and finite mathematics or functions and relations, in addition to other admission requirements.

Diploma programs

Admission to diploma programs is based upon successful completion of an OSSD or OSSGD based on an Ontario Grade 12 advanced level program (or equivalent). The overall average must be at least 60%. Certain diploma programs also require specific subjects at the Grades 11 and 12 advanced levels for admission.

Applicants with high standing in general Grade 12 programs will be considered on an individual basis. All other applicants to diploma programs, with special circumstances, will be considered on an individual basis. Please note that Ontario students applying for admission to engineering technology programs with an OSSD and six OACs or from Grade 13 will be considered for the second year of the program if they meet the subject and grade requirements. See the program listing in the *Engineering and Applied Sciences* section for exact requirements.

Special Consideration

Applicants who lack a specific required subject for their planned program or major may be considered if the level of achievement in associated subjects is substantially better than average. Each student in this category is considered on an individual basis.

Extraordinary Admission

The university will consider applicants for admission who have been away from formal education for at least two years. Applicants will likely be interviewed by an Admissions Committee representative and may be required to provide evidence of their proficiency in English. Each case is considered on its own merits.

Admission to February Session of First-Year University

Lakehead University offers courses at the first-year university level from February to the end of April. The program allows the ompletion of up to three full credits, and students may continue with the spring session r summer school. For a number of rograms, students may complete the two emaining first-year credits during these sessions. This program was designed primarily o suit the needs of students graduating rom semestered high schools at the end of January.

Admission to First-Year University from Grade 12

The university is prepared to consider exceptional advanced level Grade 12 students who attain an average of 80%, have completed the OSSD or OSSGD or equivalent, and are recommended by their principal or school counsellor for entrance to the first year of an appropriate degree program. Students may also be allowed on this basis to take a Lakehead University course as a deferred credit while completing their OAC/Grade 13 program.

Early Admission

Ontario OSSD/Grade 13 students who apply early and who have maintained at least third-class standing will be considered for early admission. All students who apply early will be advised before the end of their school year with regard to their admission status. Early admission offers may also be extended to students who apply for admission to diploma programs in engineering technology (year 1) and forest technology.

Agricultural and Biological Sciences

- **Bachelor of Science**

Three-year and four-year general
Available in: biology.

Three-year general
Available in: natural science.

Four-year honours
Available in: biology, forestry.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science", or "Honours Bachelor of Science in Forestry".

Education/Physical Education/ Recreation

- **Bachelor of Arts – Bachelor of Education (combined)**
  Bachelor of Arts – Bachelor of Education (Native Education)
  Bachelor of Education
  Bachelor of Science – Bachelor of Education (combined)
  Master of Education

Concurrent four-year degree programs in arts or science and education are offered for those who wish to teach at the primary-junior, junior-intermediate, or intermediate-senior levels. The equivalent of one year of professional studies and practice is required for certification in all programs. The university also offers a four-year Bachelor of Arts (general program) – Bachelor of Education degree for Native students that offers qualification at the primary-junior level. Programs are also available for junior-intermediate and intermediate-senior levels.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the primary-junior specialization: anthropology, English, French, history, philosophy, psychology, sociology.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the junior-intermediate specialization: English, French, geography, history, mathematics, philosophy, political studies, psychology.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the intermediate-senior specialization: English, French, geography, history, mathematics.

The following major is available to B.Sc.-B.Ed. candidates wishing to complete the primary-junior specialization: general science (natural science concentration).

The following majors are available to B.Sc.-B.Ed. candidates wishing to complete the junior-intermediate specialization: natural science and general program (chemistry concentration).

Lakehead University also offers a one-year Bachelor of Education degree program for holders of approved degrees, qualifying the candidate for teaching at the primary-junior, junior-intermediate, or intermediate-senior level.

Admission requirements
Admission to the first year of a four-year B.A.-B.Ed. or B.Sc.-B.Ed. program requires the satisfactory completion of an OSSD or OSSHGD with six OACs (or equivalent), with a minimum overall average of at least 60%. In addition to the prerequisites for specified majors, for B.A.-B.Ed., OAC/Grade 13 English is required; for B.Sc.-B.Ed., the OSSD/Grade 13 program should satisfy the requirements listed under *Bachelor of Science*.

- **Bachelor of Outdoor Recreation**

Four-year honours

Admission requirements
Satisfactory completion of an OSSD or OSSHGD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one OAC/Grade 13 English in their program.

- **Bachelor of Physical Education**

Four-year honours

Admission requirements
OSSD or OSSHGD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one OAC/Grade 13 English and chemistry course in their program. Candidates with an acceptable university entrance program that does not include chemistry will be considered on an individual basis. Those admitted without credit in OAC/Grade 13 chemistry will be required to take chemistry 1060 as one of their first-year options.

Engineering and Applied Sciences

- **Bachelor of Engineering (Postdiploma)**

Two years

Admission requirements
Diploma in technology from a college of applied arts and technology, Ryerson Polytechnical Institute, Lakehead University, or its equivalent. Specialization in: chemical, civil, electrical and mechanical.

OAC/Grade 13 applicants who are eligible for entrance to the second year of engineering technology may complete an engineering technology diploma after two years and continue at Lakehead, receiving an engineering degree after an additional two years of study. Grade 12 applicants enter first year, receive a diploma after three years, and may obtain an engineering degree after two further years of study.

- **Diploma in Engineering Technology**

Three years for Grade 12 graduates; two years for OSSD/Grade 13 graduates with six OACs holding admission requirements.
Specialization in: chemical, civil, electrical, and mechanical engineering technology.

Admission requirements
Admission to the first year of the engineering technology program requires an OSSD/OSSGD (or equivalent) including Grades 11 and 12 advanced level mathematics and sciences and Grade 12 advanced level English with a minimum 60% average. After a common first year, candidates will select one of the following four programs: chemical engineering technology, civil enginering technology, electrical engineering technology, or mechanical engineering technology.

Admission to the second year of the engineering technology program requires an OSSD or OSSHGD including six OACs or equivalent, with a minimum overall average of 60%, including chemistry, physics, calculus (Grade 13 or OAC), algebra (Grade 13) or algebra and geometry (OAC), and functions and relations (applicants lacking this credit will be considered on an individual basis). An average of 60% in mathematics courses is required. Applicants will also require Grade 12 advanced level English and preference will be given to students with OAC/Grade 13 English.

- **Honours Bachelor of Science in Forestry**

Four-year honours

Admission requirements
Satisfactory completion of an OSSD or OSSHGD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include OAC/Grade 13 calculus, chemistry, and functions and relations

or algebra and geometry in their program. The three remaining subjects should be choosen from English, another language, biology (recommended), physics, geography, history, finite mathematics (recommended), algebra (recommended if algebra and geometry not included). Applicants with two of the three mathematics courses will be considered on an individual basis.

• Diploma in Forest Technology

Two years

Admission requirements
An OSSD/OSSGD or equivalent, including Grades 11 and 12 advanced level mathematics and sciences (Grade 12 advanced level chemistry required), with a minimum 60% average.

Fine and Applied Arts

• Bachelor of Arts

Four-year honours
Available in: fine arts (visual arts), music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts". Visual arts applicants must submit a portfolio for evaluation. Music students will be required to audition prior to admission. Music applicants must present Grade 8 or equivalent in their major instrument, as well as Grade 2 theory.

General Arts and Science

• Bachelor of Arts

Three-year general
Available in: general program.

• Bachelor of Science

Three-year general
Available in: general program.

Health Professions and Medical Sciences

• Bachelor of Science in Medical Laboratory Science

Four-year honours

Admission requirements
The medical laboratory science program is a postregistered technologist's program and requires registered technologist's certification (RT), certified or pending. The program prepares students for certification as advanced registered technologists (ART) in clinical chemistry, hematology, histology, immunohematology, or microbiology. Applicants may complete the program in three years.

• Bachelor of Science in Nursing

Four-year honours

Admission requirements
Satisfactory completion of an OSSD or OSSHGD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include OAC/Grade 13 biology, chemistry, and English in their program. Mathematics is strongly recommended.

Candidates who are registered nurses must:
a) have evidence of registration to practise nursing in Canada;
b) have taken OAC/Grade 13 chemistry (or equivalent); OAC/Grade 13 mathematics and English are strongly recommended;
c) meet university entrance or mature student requirements.

Registered nurses admitted under the above criteria may enter the streamlined program, which will allow them to complete their Honours Bachelor of Science in Nursing degree in two calendar years.

Mature students are required to have OAC/Grade 13 chemistry (or equivalent), and OAC/Grade 13 English and mathematics are strongly recommended.

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: English, English (concentration in Canadian studies), history, French, mathematics, philosophy.

Four-year honours
Available in: English, history, French, mathematics, philosophy.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Library and Information Studies

Three years

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general/Four-year honours
Available in: computer science, mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: biology, chemistry, chemistry with energy and fuel science, computer science, general program, geography, mathematics, natural science, physics, physics with energy and fuel science, psychology.

Four-year general
Available in: biology, applied chemistry, computer science, geology, mathematics, physics.

Four-year honours
Available in: biology, chemistry, chemistry with energy and fuel science, computer science (options in numerical and theoretical, business, and hardware), geography, geology, mathematics, medical laboratory sciences, physics, physics with energy and fuel science, psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Administration

Three years

Admission requirements
a) satisfactory completion of all courses required for year II – Honours Bachelor of Commerce with a minimum 60% average.
b) completion of a three-year six-semester community college business diploma with the equivalent of a B+ cumulative average in the business subjects is the minimum requirement for admission consideration. Each application will be considered on an individual basis to assess the candidate's standing with respect to the program requirements of years I and II.

• Bachelor of Arts

Three-year general
Available in: anthropology, anthropology (Native studies), anthropology (boreal studies), economics, general program, geography, library and information studies, political studies, psychology, religious studies, sociology.

Four-year honours
Available in: anthropology, economics, geography, humanities, political studies, psychology, sociology, social work.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Commerce

Four-year honours
Available in: accounting, finance, general management, information systems, marketing, personnel/industrial relations.

Admission requirements
Satisfactory completion of an OSSD or OSSHGD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include OAC/Grade 13 English, calculus and algebra/algebra and geometry in their program. (Note: the school may consider functions and relations, mathematics of finance, or finite mathematics as a substitute for either calculus or algebra/algebra and geometry.)

• Bachelor of Science

Three-year general/four-year honours
Available in: geography, psychology.

dmission requirements
ee *General Admission Requirements*, Bachelor of Science".

esidence Fees
pproximate 1989-90 costs, with meals
ingle room $3 521
ouble room $3 339

uition Fees 1989-90

egree programs
Canadian citizens and landed immigrants)
student activity fee of $137 should be dded to all of the following fees.
rts (including concurrent education and make-up year) $1 517
rts (geography/Honours Bachelor of Outdoor Recreation) $1 517
pplied science $1 648
dministration, commerce, social work $1 517
egree engineering (years 4 and 5 only) $1 517
egree forestry $1 518
ducation degree, B.Ed. (one-year program) $1 517
ibrary and information studies $1 517
ursing $1 517
utdoor recreation $1 517
hysical and health education $1 517
cience (including concurrent education, medical laboratory science, and make-up years) $1 517
cience (natural science/Honours Bachelor of Outdoor Recreation) $1 517

iploma programs
Canadian citizens and landed immigrants)
ngineering technology $912
orestry technology $912
raduate business diploma (postdiploma) $1 517

urther Information
nquiries about admission requirements hould be directed to
rs. Gwen Wojda
ssistant Registrar, Admissions
akehead University
hunder Bay, Ontario P7B 5E1
elephone (807) 343-8157
oll-free (Ont., Man., Sask.) 1-800-465-3959

nquiries about admission requirements and econdary school liaison should be directed o

Ms. Andrea Duckert, Ms. Sarena Knapik,
Ms. Donna Piovesana
Secondary School Liaison Officers
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8157
Toll-free (Ont., Man., Sask.) 1-800-465-3959
Information and application forms for student awards may be obtained from
Ms. J. Lawson
Director of Student Services
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8149

Laurentian University

Sudbury

Acting President: Dr. Charles H. Bélanger

Enrolment 1989-90 (Sudbury Campus)

	Undergraduate	Graduate
Full-time	5 445	76
Part-time	4 549	93

Faculties, Schools, and Institutes
Faculty of Humanities
Faculty of Professional Schools
Faculty of Science and Engineering
Faculty of Social Sciences
School of Commerce and Administration
School of Education
School of Engineering
School of Graduate Studies
School of Nursing
School of Human Movement
School of Social Work
School of Sports Administration
School of Translators and Interpreters

General Admission Requirements
Minimum of three subjects – six credits, with a 60% average at the Ontario Grade 13 level or in OACs or the equivalent. At least four of the six credits must be from languages, mathematics, sciences, or social sciences. Applicants planning to concentrate in mathematics must have two credits in mathematics, of which one must be calculus. Applicants to the arts program in computer science must have two mathematics courses. Applicants to a science program in computer science must have at least two credits in mathematics, of which one must be calculus. The university also requires a complete academic report for the two final years of secondary school and a recommendation by the secondary school last attended regarding fitness for university studies. Petitions for variance from these requirements may be initiated with the Admissions Office.

Bachelor of Arts
The Grade 13 requirement for admission to a Bachelor of Arts program is either English or French. A Bachelor of Arts degree may be obtained at either the general or specialized level. General programs include 15 full courses (90 credits) over a three-year period, normally five courses (30 credits) each year. Concentrations (six full courses (36 credits) in one subject taken over three years) available are listed under specific subject areas. Specialized programs include 20 full courses (120 credits) over a four-year period, 10 (60 credits) of which will be upper-year level courses and one (6 credits) of which will be a first-year course in the subject of specialization. As a condition of graduation, all students in arts and science programs must meet a requirement of competence in the official language (English or French) with which they most identify.

Bachelor of Science
Grade 13 requirements for admission into a Bachelor of Science program include: calculus, chemistry, and two of biology, physics, geology, and mathematics other than calculus. (Recommended subjects: chemistry, physics, two mathematics, and one other science credit.) General and specialized degrees may be obtained in the same manner as a Bachelor of Arts degree. As a condition of graduation, all students in arts and science programs must meet a requirement of competence in the official language (English or French) with which they most identify. Concentrations available are listed under specific subject areas.

Early Admission
Early admission will be granted to students who have, in the opinion of the Admissions Committee for Laurentian, Algoma, Hearst, or Nipissing, a satisfactory academic background. This acceptance is conditional upon the satisfactory completion of Grade 13.

Ontario Grade 12
The university and colleges will consider the applications of exceptional Grade 12 students with an "A" average throughout secondary school. A personal biography, as well as a positive recommendation from the guidance counsellor and/or principal, will be required. Before being recommended for admission, the candidate will be interviewed.

Concurrent Grade 13 Students
Subject to certain conditions, Grade 13 students may take university courses concurrently with their secondary school program, but credit will not be granted for passed courses until the students meet the normal admission requirements. Such students may enrol for only one session at a time as special students, and their records will be reviewed at the end of each session. These students must have obtained at least a "B" standing (depending on course load) and have the support of their guidance counsellor and/or school principal.

Mature Students
The university will consider for admission as mature students persons whose previous school performance and/or recent work record suggest a strong possibility of academic success. In order to qualify, applicants must be 21 years of age by December 31 of the year of admission and must not have received formal education for at least two years.

Students applying to full-time studies will be required to provide letters of reference and transcripts of marks for studies previously undertaken. Only Canadian citizens and permanent residents are considered for admission as mature students. Mature students will be admitted on probation.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general
Available in: biology.

Four-year specialized
Available in: biochemistry, biology, kinesiology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/ Recreation

• Bachelor of Education
The School of Education offers the following: a three-year program leading to a Bachelor of Arts with a concentration in education, after which a fourth year may be taken to qualify for a Bachelor of Education degree and an Ontario Teacher's Certificate (BEO); a one-year program leading to a Bachelor of Education degree and a BEO for candidates who have a baccalaureate other than a Bachelor of Arts with a concentration in education.

Admission requirements
Français, and English or *anglais*.

• Bachelor of Physical and Health Education, Honours Bachelor of Physical and Health Education

Four years
A curriculum designed to provide a sound background in physical and health education in society, in the context of educational, leisure, and competitive situations.

• B.P.H.E. (Health Promotion) Program, Honours B.P.H.E. (Health Promotion) Program

Four years
To provide leadership skills required for the promotion of health and physically active lifestyle with focus on counselling in physical fitness, stress management, nutritional awareness, environmental sensitivity, and health-oriented self-discipline.

• B.P.H.E. (Adventure Leadership) Program, Honours B.P.H.E. (Adventure Leadership) Program

Four years
The outdoor adventure leadership program is designed to assist the individual in developing, through experience and the acquisition of technical skill and theoretical knowledge, the personal qualities necessary to provide informed leadership in the recreational and educational uses of the outdoors. The experience and knowledge provided through these program situations are designed to foster personal growth of the individual.

Admission requirements
English or *français* and at least one level V or OAC course chosen from mathematics, chemistry, physics, biology, geology, or computer science.

• B.Sc. in Kinesiology Program, Honours B.Sc. in Kinesiology Program

Four years
The program is designed for those students who are interested in a scientifically oriented approach to the study of human movement.

Admission requirements:
See General Admission Requirements, "Bachelor of Science".

Engineering and Applied Sciences

• Bachelor of Engineering
The School of Engineering offers four-year Bachelor of Engineering programs in mining engineering and extractive metallurgical engineering, and the first two years of chemical, civil, and mechanical engineering.

Admission requirements
Three level V mathematics (calculus, algebra, functions and relations), chemistry, and physics, or two OAC mathematics (calculus, algebra and geometry), physics, and chemistry.

Fine and Applied Arts

• Bachelor of Arts

Three-year general
Available in: music, theatre arts.

Four-year specialized
Available in: music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts". Candidates for admission into the music concentration program should have successfully completed at least Grade 2 rudiments (R.C.M.T.) or equivalent, and at least Grade 8 (R.C.M.T.) or equivalent in the performance area they intend to pursue at Laurentian.

General Arts and Science

• Bachelor of Liberal Science
This program requires 15 courses, including general science, non-science, and elective credits. Considerable flexibility exists so that various emphases or themes can be incorporated in programs to accommodate different student needs.

Admission requirements
English or *français*.

Health Professions and Medical Sciences

• Bachelor of Science in Nursing
A four-year program preparing graduates to practise in all health care facilities, including hospitals, clinics, public health agencies, and family practice units, and to practise as nurses in industry. As well, graduates are able to participate in research and may go on to study for master's and doctoral degrees.

Admission requirements
English or *français*, chemistry, and biology (minimum average of 70% required).

• Bachelor of Science in Behavioural Neuroscience
A four-year specialized program for a broad knowledge in both behavioural and biochemical sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: classical studies, English, ethics, *français*, French, French language and civilization, German, Italian, linguistics, philosophy, religious studies, Russian, Spanish.

Four-year specialized
Available in: English, *français*, philosophy, religious studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science in Language
A four-year program primarily concerned with training for posts in Canada; students will be equipped for positions involving the use of languages with the public service, industry and commerce, bilingual agencies and business, and the mass media.

Admission requirements
English (minimum average 66%) and French or *français* (minimum average 66%).

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general
Available in: mathematics, computer science.

Four-year specialized
Available in: computer science, earth science.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: applied physics, chemistry, computer science, geology, mathematics.

Four-year specialized
Available in: applied physics, chemistry, computer science, geology, kinesiology, mathematics, mining geology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

cial Sciences and Related Courses

achelor of Arts

ree-year general
vailable in: anthropology, Canadian udies (interdisciplinary program), onomics, education, geography, history, w and justice, Native studies, political ience, psychology, sociology.

our-year specialized
vailable in: economics, geography, history, w and justice, political science, psycholgy, sociology.

dmission requirements
ee *General Admission Requirements,* achelor of Arts".

Bachelor of Commerce

our-year honours
venty full courses. Two new programs, a achelor of Commerce in co-operative adinistration in French and a Bachelor of usiness Administration, have been introuced. An honours Bachelor of Commerce sports administration is an interdiscipliary program offered by the School of ports Administration in co-operation with e School of Commerce and Administration nd the School of Human Movement.

dmission requirements
nglish or *français* and two Grade 13 matheatics courses.

Bachelor of Social Work

our-year honours
ne study of social work begins in the first ear.

dmission requirements
rade 13 English or French.

Bachelor of Social Work (Native Human Services)

our years
program to prepare professionals for soal services that are culturally appropriate r Native communities.

dmission requirements
rade 13 English or French.

Continuing Education
ontinuing-education students may take ourses either by day or by evening during e winter, or attend the evening spring seson or the six-week summer session. aurentian offers courses in some 20 entres throughout northeastern Ontario, here students may pursue their university rograms.

Laurentian offers the post-R.N. B.Sc.N. rogram in Sault Ste. Marie, North Bay, immins, Barrie, Orillia, and Parry Sound/ racebridge, with secondary sites in Elliot ake, Kapuskasing, New Liskeard, and irkland Lake. The full degree is granted. egistered nurses interested in the program should write to the Centre for Continuing Education for more information.

• Université canadienne en France
The *Université canadienne en France* program, introduced in 1987, is operated by Laurentian University in co-operation with Blyth and Company.

The program is designed to enable English-speaking and French-speaking students from all provinces to spend a year in southern France while continuing to earn Canadian university credit. An integral part of the Ontario university system, the *Université canadienne en France* program offers a unique opportunity for students to complete a year of university credit while developing bilingual skills, broadening themselves through travel, and acquiring a heightened appreciation of the diversity of Canada itself.

Care has been taken to ensure that Canada's languages and regions are represented in the programs with a student body of over 200 anglophone and francophone undergraduates from all provinces. The eight-month program of courses in humanities, social sciences, and languages is specially selected from the first three years of an Ontario university curriculum.

The intensive curriculum in language and civilization, which highlights a special theme each year (the twentieth-century world, the Renaissance, the Mediterranean, the Enlightenment), is designed to give Canada's future leaders a better understanding of our world. Laurentian credits earned in the *Université canadienne en France* program are transferable to the students' home universities upon approval by these institutions. The teaching staff is made up of faculty from Laurentian and other Canadian universities.

Various types of student accommodation are available, including residences on the campus, which is located on the Côte d'Azur between Nice and Monaco.

Admission Requirements
A minimum of one full year of study (minimum of 24 credits) at a Canadian university or successful completion of the DEC in Quebec. Students must be in good academic standing at their home university and obtain a letter of permission or equivalent once admitted to ensure that the university will accept credit transfers at the completion of their studies at UCF.

Fees 1989-1990
Academic (fees applicable to Canadian citizens and exempt international students) tuition fees and ancillary fees (includes tuition, athletic facilities, life/accident insurance, student association fees): $1 825

Travel and accommodation (includes return air fare, residence accommodation, transfers, excursions: $6 780

Total fees: $8 605

Spring session
In addition to offering the full-year program, the *Université canadienne en France* offers a spring session that runs from early May to the middle of June. The courses include intensive French-language and Italian-language programs as well as commerce, humanities, and social science courses. Students may register for a maximum of 12 credits for this session. Fees start at $2 675.

Residence 1989-90
Single room $1 935 – $2 000
Double room $1 670 – $1 720
Apartments for married students: $330 per month.
Meals are available on a cash basis, or a meal card may be purchased.

Tuition Fees 1989-90

(Including incidental fees)
Canadian citizens and exempt international students
Full-time students:
All programs except engineering $1 680.50
Engineering $1 808.50

Further Information
Information and application forms for student awards may be obtained from
Denis Lauzon
Director of Student Awards
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151, ext. 3050
Toll-free 1-800-461-4030

Inquiries about admission requirements and requests for more general information should be directed to
Assistant Registrar, Admissions
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3915
Toll-free 1-800-461-4030

Requests for general information should be directed to
Chris Culliford, Manager Liaison Services, or
Lorraine Bédard and Lisa Rovinelli, Liaison Officers
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3100
Toll-free 1-800-461-4030

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President: Dr. J. Douglas Lawson

Enrolment: 1989-90

Full-time	240
Part-time	450

Admission requirements
See Laurentian University admission requirements. Applicants to Algoma's Bachelor of Business Administration

program require at least one OAC English and at least two OAC math credits. Additional admission requirements for the co-operative programs are listed in the section on Co-operative Education.

Algoma is a liberal arts and sciences college affiliated with Laurentian University. It provides university-level instruction for degrees, professional development, and general interest. Students may apply efforts to any of fourteen areas of concentration and will be awarded degrees by Laurentian University upon successful completion of the program.

Degree Programs Offered

• Bachelor of Arts
Three-year degree programs in accounting, computer science, economics, English, French, geography, history, Italian, mathematics, philosophy, political science, psychology, and sociology.

• Bachelor of Arts (Honours or Specialized)
Four-year degree programs in English and psychology. Students in three-year programs at Algoma may transfer to Laurentian University to complete a four-year program, provided they have met all the program requirements.

• Bachelor of Business Administraion
A four-year degree program in business administration. The core courses provide students with knowledge of all aspects of business, including accounting, finance, marketing, and human resources management. The program also requires the study of subjects outside the business discipline to encourage the flexibility required in today's marketplace.

• Bachelor of Science
A three-year B.Sc. degree program in computer science and liberal science. Algoma also offers the first year of a Bachelor of Science degree program (three- or four-year) in biology, chemistry, and physics.

• Honours Bachelor of Commerce
The first two years of the B.Comm. degree program, after which students who meet the requirements may apply for admission to the final two years of the program at Laurentian University or elsewhere.

• Honours Bachelor of Social Work
The first two years of the B.S.W. degree program, after which students who meet the requirements may apply for admission to the final two years of the program at Laurentian University or elsewhere.

• Co-operative Education (Co-op North)
The disciplines available to students choosing the co-op option include: accounting, business administratalon, computer science, economics, liberal science, mathematics, and psychology. Students must meet the admission requirements as listed for each of the academic disciplines. Students register for co-op upon initial enrolment, but final admission does not take place until completion of year 1. Additional requirements include: completion of year 1 with a minimum overall 70% average (some disciplines require a specified minimum grade); completion of a co-op preparatory course; demonstrated English writing proficiency; demonstrated word processing and spreadsheet competence; and recommendation by the Co-op North admissions committee. Students must be enrolled on a full-time basis to be eligible for co-op.

• Part-Time Studies
Students pursuing degrees through part-time studies have the same opportunities for the same courses and programs (except co-op) and are subject to the same course and program requirements as full-time students. Contact the Office of the Registrar for further information.

Scholarships and Financial Assistance

Algoma offers admission and in-course scholarships ranging in value from $200 to $2 000. The Ontario Student Assistance Program is administered through the Office of the Registrar.

Housing

A housing registry is available for students. Details may be obtained from the Department of Student Services.

Tuition Fees 1990-91

(including incidental fees)
All programs $1 725 (full-time)
Additional fees apply to co-op programs.

Further Information

Information regarding admission requirements and requests for general information should be directed to

Angela Fera, Liaison Officer
Office of the Registrar
Algoma College
1520 Queen St. East
Sault Ste. Marie, Ontario P6A 2G4
Telephone (705) 949-2301 ext. 200 (collect calls accepted)
Fax (705) 949-6583

[illegible]

President: Raymond Tremblay

Enrolment 1989-90

Full-time	31
Part-time	216

Founded in 1953, Collège de Hearst provides secondary and university education to francophones in northeastern Ontario. In 1957, it became affiliated with the University of Sudbury and, in 1963, with Laurentian University. The college offers, in French, complete Bachelor of Arts and Bachelor of Business Administration programs. In order to cover a wider area and to become accessible to all residents of northeastern Ontario, the college has offered university courses in Cochrane, Dubreuilville, Geraldton, Hearst, Hornepayne, Iroquois Falls, Kapuskasing, Moose Factory, Moosonee, Smooth Rock Falls, and Timmins.

Degree Programs Offered

All programs are offered either entirely or partially in French.

• Bachelor of Arts
Hearst offers a Bachelor of Arts with a concentration in French, psychology, or sociology. It is also possible to do the first two years of a Bachelor of Social Work (B.S.W.) program. For their optional courses, students may enrol in the following courses: business, computer science, economics, English, *français*, French, geography, history, humanities, mathematics, political science, psychology, religion, and sociology.

The Bachelor of Arts program requires, on average, three years of full-time study; however, under the semester system, students may begin their program in January rather than in September; take a semester off; or enrol in several consecutive semesters.

Admission requirements:
Six courses (six credits) with a credit in French or in English; an average of 60% in Ontario Grade 13 or Ontario pre-university year.

• Bachelor of Business Administration
The business administration program prepares administrators for the various roles they will assume during their careers. It is, first and foremost, a Bachelor of Business Administration program; however, it is designed in such a way that after one year, students may obtain a certificate in organzational administration or, after three years, a general Bachelor of Arts (with a concentration in administration).

Admission requirements:
Six courses (six credits) with a credit in French and a credit in mathematics; an average of 60% in Ontario Grade 13 or Ontario pre-university year; also a two-year diploma in business administration from Northern College with an average of 70% (a maximum of 30 credit equivalents may be obtained). Candidates who do not meet the language or mathematics requirements may be admitted but must include these subjects in their program. Special cases may be submitted to the Admissions Office of the college.

• Continuing Education
Hearst offers intersessional and evening courses in the following locations: Cochrane, Hearst, Iroquois Falls, Kapuskasing, Longlac, and Timmins. The admission requirements are the same as those for full-time students, except for adults (21 and

ver), who are not required to undergo a aturity and general knowledge test if they ish to study on a part-time basis only.

For a description of continuing education ourses and admission procedures, request copy of the college's calendar or consult our local newspaper at the beginning of ach semester. Registration is held during e week before classes begin. Consult your cal newspaper for details.

ccommodation, 1989-90
ingle room: $1 392 per year.
ouble room: $1 010 per year.
ouble room (occupied by one person): $1 870 per year.

uition fees, 1989-90
ull-time: $685 per semester, or $1 370 per full academic year.
art-time: $148 per course of three credits.
ne six-credit course (two semesters, September to April): $296.
egistration fees of $8 and admission fees $12 are also payable. Membership in the ll-time student association costs $22 per emester.

urther Information
or more information regarding programs nd financial aid, please contact
dmissions Office
ollège de Hearst
O. Box 580
earst, Ontario P0L 1N0
elephone (705) 372-1781
ax (705) 362-7518

nancial Aid Office
ollège de Hearst
O. Box 580
earst, Ontario P0L 1N0
elephone (705) 372-1781
ax (705) 362-7518

[illegible]

resident: Dr. Anthony Blackbourn

nrolment 1989-90

ull-time	650
art-time	1 100

aculties
aculty of Arts
aculty of Education

dmission Requirements
ame as for Laurentian University.

egree Programs Offered

Bachelor of Arts
four-year Bachelor of Arts specialized proram in English, environmental geography, eography, history, psychology, and sociolgy; a combined B.A./orientation to teaching rogram; and a three-year Bachelor of Arts eneral program for full-time and part-time tudents. The general program consists of 15 courses, including six in the area of concentration. No more than seven first-year courses may be contained in the full program. Concentrations are offered in administrative studies, economics, English, environmental geography, geography, history, psychology, social welfare, and sociology. Other areas in which electives are offered are: anthropology, biology, chemistry, classics, commerce, computer science, environmental science, fine arts/music, fine arts/visual arts, *français*, French, geology, mathematics, philosophy, physics, and political science.

Admission requirements
English or *français*, except for administrative studies, which requires English or *français* and two credits in mathematics. Students who do not meet the mathematics requirement will be considered on an individual basis.

• Bachelor of Business Administration
A four-year bachelor of business Administration professional degree program; the emphasis is on business administration and management studies.

Admission requirements
English or *français*, and two credits in mathematics.

• Bachelor of Liberal Science
A three-year Bachelor of Liberal Science program.

Admission requirements
Calculus, chemistry, and two of biology, geology, physics, or mathematics.

• Transfer Programs
Nipissing offers the first year of the Bachelor of Science program and the first two years of the Bachelor of Social Work program. Students in these transfer programs may complete one or two years at Nipissing and then transfer to Laurentian or another university to complete the degree.

Admission requirements
Bachelor of Science – calculus, chemistry, and two of biology, geology, physics, or mathematics.
Bachelor of Social Work – English or *français*.

Residence
The student residence accommodates 440 in 75 townhouse-style apartments. Each furnished townhouse accommodates six people. Students have their own bedroom with a built-in study area. The fully equipped kitchen, dining room, and living room are shared.

Residence fees 1990-91: arts, business administration, education, science, social work – $60 to $67 per week

Tuition Fees 1990-91
(including incidental fees)
Full-time arts, business administration, education, science, and social work $1 689

Further Information
Information regarding entrance requirements, academic status and scholarships, and accommodation may be obtained from
The Registrar's Office
Nipissing College
100 College Drive
Box 5002
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450
Toll-free 1-800-461-1673

Inquiries about financial assistance should be directed to
Financial Aid Officer
Nipissing College
100 College Drive
Box 5002
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450
Toll-free 1-800-461-1673

McMaster University

Hamilton

President: Dr. Geraldine A. Kenney-Wallace

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	11 108	1 490
Part-time	3 169	751

Academic Units

Faculty of Business
Faculty of Engineering
Faculty of Health Sciences
School of Medicine
School of Nursing
Occupational Therapy and Physiotherapy Program
Faculty of Humanities
Music Program
Faculty of Science
Faculty of Social Sciences
School of Physical Education and Athletics
School of Social Work
Arts and Science Program
Women's Studies Program
McMaster Divinity College (affiliated)
Centre for Continuing Education
School of Graduate Studies

General Admission Requirements

Grade 13 requirements

At the time of writing, Grade 13 courses were being phased out and replaced by OACs. During the transition period the two sets of courses may be equivalent. The requirements below are given in terms of OACs, for which Grade 13 courses may generally be substituted.

All potential applicants are strongly advised to take OAC English I. Applicants to arts and science I (special program), business I, engineering I, humanities I, music I, nursing I, physical education I, and social sciences I must have one OAC English credit for admission. Applicants to natural sciences I must present OAC English I.

Grade 13 Requirements for Specific Programs of Study

McMaster is aware of the variety of experimental programs offered in Ontario secondary schools and welcomes applicants from these programs. Although it may not be possible for all applicants to meet the exact subject requirements outlined below, students are urged to write the Associate Registrar (Liaison and Admissions), who will ensure that their case is given careful consideration.

Humanities I, natural sciences I, and social sciences I are broad fields of study in first year that lead to a variety of honours, majors, and general programs in the second year. Arts and science I, business I, engineering I, music I, nursing I, and physical education I are the first-year programs leading to the Bachelor of Arts and Science, Bachelor of Commerce/Bachelor of Commerce (Honours)/Bachelor of Commerce and Arts (Economics), Bachelor of Engineering/Bachelor of Engineering and Management, Bachelor of Music, Bachelor of Science in Nursing, and Bachelor of Physical Education, respectively.

Note: All nine level I programs have limited enrolment: arts and science I, business I, engineering I, humanities I, music I, natural science I, physical education I, nursing I, and social sciences I. Admission to these programs is by selection; meeting the minimum requirements does not guarantee admission. In 1991, significant changes may be made to the admission requirements for level I programs. Contact the university for details.

Area Requirements

Arts and science I (Special Program)

Enrolment in the arts and science program is limited, and admission is by selection. Candidates must complete a supplementary application form. Students applying from Ontario secondary schools must have:

1. one OAC English;
2. OAC calculus;
3. completed additional OACs to total six credits with a minimum average in the mid 80s. At least three of the additional OACs must be selected from among English, *français,* other languages, algebra and geometry, biology, chemistry, finite mathematics, geography, history, music, and physics. (Grade 13 courses in algebra and in functions and relations will be accepted in this group.)

Candidates without these qualifications who nevertheless provide evidence of unusual promise will also be considered. Students from colleges, other universities, and other provinces are invited to apply. Each case will be considered on its individual merit.

Business I

Enrolment in business I is limited, and admission is by selection. The specific percentage required for admission varies from year to year. The following are the minimum requirements for consideration:

1. one of OAC calculus, OAC algebra and geometry, or OAC finite mathematics. Calculus or finite mathematics is preferred;
2. one OAC English;
3. at least three additional OACs selected from accounting and economics, algebra and geometry, biology, chemistry, calculus, English, finite mathematics, *français,* geography, history, music, physics, and other languages;
4. additional OACs to total six credits, with a minimum overall average of 70%.

Grade 13 courses in algebra and in functions and relations may be used in groups 1 and 3 above, but only one of OAC algebra and geometry and Grade 13 algebra may be used.

Engineering I

Enrolment in engineering I is limited, and admission is by selection. A supplementary application form is required. The minimum requirements are six OACs with an average of at least 75%, and these must include English, calculus, algebra and geometry, chemistry, and physics, with an average of at least 75% in these five subjects. For students presenting Grade 13 courses, the minimum requirements are an overall weighted average of at least 75% in the six credits offered, including an area average of at least 75% in the following five Grade 13 credits: calculus, algebra, functions and relations, physics, and chemistry.

Applicants presenting a mixture of Grade 13 subjects and OACs may substitute Grade 13 courses in calculus, chemistry, and physics for the OACs. An applicant presenting OAC algebra and geometry must also present English; a student presenting Grade 13 would have to present algebra and functions and relations. Other mixtures of Grade 13/OAC credits will be considered on an individual basis.

As a general policy, applicants from Ontario colleges of applied arts and technology who have achieved a first-class honours standing in the last two years of a three-year technology program will be considered for admission to the second level of a relevant engineering program.

Humanities I

Enrolment is limited, and admission is by selection. A minimum overall average of 70% in six OACs is required. The required OACs include:

1. one of OAC English I, *anglais* I or II, or *français* I with a grade of at least 65%;
2. five additional OACs. The faculty of humanities recommends that students select at least one OAC from the following humanities subjects: art, drama, English, French, *français,* other languages, history, and music, in addition to requirement 1. above. Candidates without these qualifications who provide evidence of equivalent promise will be considered. No more than two OACs in any one subject will be accepted.

Art 1FO: Students intending to take art 1F06 must present a portfolio by the end of April and be interviewed by the Department of Art and Art History. The portfolio should contain a variety of original works in different media, including works derived from both first-hand observation and the imagination. During the interview, students may be asked to do some drawing as an additional means of demonstrating their skills and interests. Late applications may be considered if places are available in the class.

Music I

The academic requirements are the same

as for humanities I. In addition, applicants to music I or to the B.A. in music must successfully complete a music audition/examination consisting of:

1. demonstration of technique (approximately Grade 9 level of the Royal conservatory of Music, Toronto);
2. performance (approximately 20 minutes) of two or three varied pieces of the candidate's choice (approximately Grade 9 level), including at least one from this century;
3. ear test appropriate to the Grade 9 performance level;
4. written examination on rudiments of theory (Grade 2 level);
5. interview.

Applicants to music I must make arrangements with the department of music for the audition.

Natural sciences I

Enrolement is limited, and admission is by selection. The specific percentage required for admission varies from year to year. Students with a weighted OAC average of at least 75% will be given priority. The minimum requirements for September 1990 are:

1. OAC calculus;
2. one of OAC physics, OAC algebra and geometry;
3. one of OAC biology, OAC chemistry, OAC algebra and geometry;
4. a weighted average acceptable to the faculty in calculus and the two additional credits specified above (in the past five years an average of at least 70% has been required);
5. additional OACs to a total of six credits.

It is strongly recommended that applicants present at least one of OAC biology, OAC chemistry, or OAC physics when meeting the above requirements. OAC algebra and geometry is also desirable. Although OAC English is not required for admission, it is strongly recommended that students take it. Grade 13 courses in algebra and in functions and relations may be used in group 2, 3, 4, or 5 above. Significant changes are expected for September 1991.

Nursing I

Enrolment is limited, and admission is by selection. Possession of the minimum requirements does not guarantee admission. Only those applicants who offer high academic standing are selected.

Required:

1. year 4 mathematics (advanced level);
2. OAC chemistry and OAC English;
3. one of OAC mathematics, or OAC biology, or OAC physics;
4. additional OACs (within the two years before application) to total six credits. At least two of the additional OACs must be selected from *français*, other languages, calculus, finite mathematics, algebra and geometry, biology, physics, geography, history, and music.

Grade 13 courses in algebra and in functions and relations may be used in groups 3 and 4 above.

Health requirements for admission: Before registration, students must file information pertaining to their state of health and immunization with the university. Detailed instructions will be provided upon acceptance into the program.

OAC/Grade 13 applications must be postmarked no later than May 1 in the year in which study is to begin. Non-OAC/Grade 13 applications must be postmarked no later than February 15 in the year in which study is to begin.

Mature students and diploma registered nurses are invited to write to the Assistant Registrar (Health Sciences).

Physical education I

The academic requirements are the same as for social sciences I. It is strongly recommended that one of biology, chemistry, or physics be included in their OACs by potential applicants. Candidates without these qualifications who provide evidence of equivalent promise will be considered.

Social sciences I

Enrolment is limited, and admission is by selection. A minimum average of at least 70% (to be computed on the basis of the six highest marks achieved in OACs) will probably be required. The minimum requirements are:

1. one OAC English;
2. one of OAC algebra and geometry, or OAC calculus, or OAC finite mathematics;
3. additional OACs to total six credits.

Candidates without these qualifications who nevertheless provide evidence of equivalent promise will be considered. Grade 13 courses in algebra and in functions and relations may be used in place of algebra and geometry in group 2 above.

Early Admission

Early admission is based on interim marks or interim and final marks and may be granted in June to an applicant who expects to acquire final standing later in the year. If granted early admission, the applicant must meet the minimum admission average and successfully complete all required subjects for the chosen program.

Winter Admission

Students from semestered secondary schools who have successfully completed the required subjects and achieved the minimum admission average (based on final marks) may be admitted on a part-time basis into the first year of their programs in February. A selection of ten to twelve courses will be available at that time. Courses scheduled for the February to July session are offered in the evening only.

Admission with other qualifications

Applicants who do not meet the above qualifications, or whose academic backgrounds vary from those described above, should contact the Associate Registrar (Liaison and Admissions).

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general

Available in: biology.

Four-year honours

Available in: biochemistry (general option), biochemistry (biotechnology and genetic engineering option), biochemistry and chemistry (combined), biology, biology and philosophy, biology and psychology-life sciences (combined), molecular biology and biotechnology.

Four-year major

Available in: biochemistry, biology.

Five-year honours

Available in: biology, pharmacology.

Admission requirements

See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Education/Physical Education/Recreation

• Bachelor of Physical Education

Four years

Admission requirements (physical education I)

See *General Admission Requirements* and *Area Requirements*, "Physical education I".

• Education

Continuing education for teachers is available. Programs lead to a master's (teaching) (M.A. or M.Sc.) degree.

Engineering and Applied Sciences

• Bachelor of Engineering

Four years

Available in: ceramic, chemical, civil, computer, electrical, engineering physics, manufacturing, materials, mechanical, and metallurgical engineering.

Five years

Available in: civil engineering and computer systems.

• Bachelor of Engineering and Management

Five years

Available in combination with: ceramic, chemical, civil, computer, electrical, engineering physics, materials, mechanical, metallurgical.

Admission requirements:

See *General Admission Requirements* and *Area Requirements*, "Engineering I".

• Bachelor of Science

Four-year honours

Available in: applied chemistry, applied physics (general option), applied physics (health and radiation option).

Admission requirements

See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Fine and Applied Arts

• Bachelor of Arts

Three-year general/four-year honours
Available in: art, art history, dramatic arts, music.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Humanities I".

• Bachelor of Music

Four-year honours
Available in: music education, music history and theory. A student may also combine two humanities or one humanities and one social science to make a combined program.

Three-year general

Admission requirements (music I)
See *General Admission Requirements* and *Area Requirements*, "Music I".

General Arts and Science

• Bachelor of Arts and Science (special program)

The arts and science program provides for a rigorous study of methods of inquiry, with substantial specialization in a discipline or problem area through the use of electives. Combined honours programs are available in many disciplines from humanities, social sciences, and sciences.

Five-year honours
Available in combination with: biology, physics.

Four-year honours
Available in combination with: anthropology, biochemistry, computer science, drama, economics, English, French, geography, German, gerontology, history, mathematics, philosophy, political science, psychology, religious studies, social work, sociology.

Three-year general

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Arts and Science I".

• Bachelor of Science – general

Three-year general

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Health Professions and Medical Sciences

• Bachelor of Health Sciences

McMaster University offers two Bachelor of Health Science (B.H.Sc.) second-degree programs in occupational therapy and physiotherapy. In 1990-91 and 1991-92 McMaster will also offer the B.H.Sc. degree completion program for those who currently hold or are completing the Mohawk College diploma in occupational therapy or physiotherapy. The pre-program phase for those who hold diplomas from institutions other than Mohawk College is *no longer* available.

• Bachelor of Science in Nursing

Four years; two years (for diploma registered nurses)

Admission requirements (nursing I)
See *General Admission Requirements* and *Area Requirements*, "Nursing I". Candidates holding R.N. diplomas or having other qualifications should contact the Assistant Registrar (Health Sciences).

• Doctor of Medicine

Three-year program leading to M.D. Open to those with at least three years of university and a minimum "B" average. Applicants with backgrounds that vary from these criteria should contact the Assistant Registrar (Health Sciences).

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: classical studies, English, French, history, philosophy.

Four-year honours
Available in: classical studies, classics, comparative literature, English, French, German, German and political science, Hispanic studies, history, history and geography, Italian, modern languages and linguistics, philosophy, philosophy and biology, philosophy and mathematics, Russian, Russian and political science. A student may also combine two humanities subjects or one humanities and one social science subject to make a combined program. Honours programs in German, Hispanic studies, Italian, or Russian must be combined with another subject.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Humanities I".

Mathematical and Physical Sciences

• Bachelor of Science

Three-year general
Available in: chemistry, computer science, geology, mathematics, physics, statistics.

Four-year honours
Available in: biochemistry (general option), biochemistry (biotechnology and genetic engineering), biochemistry and chemistry, chemistry, chemistry and geology, chemistry and physics, computer science, computer science and mathematics, computer science and psychology, computer science and statistics, geography, geography and environmental science, geography and geology, geology, geology and physics, mathematics, mathematics and physics, materials science, physics (general option), physics (theory option).

Four-year major
Available in: biochemistry, biochemistry and chemistry, chemistry, computer science, computer science and mathematics, computer science and statistics, geology, geology and physics, materials science, mathematics, physics (general physics, and health and radiation physics options).

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: anthropology, economics, geography, gerontology, labour studies, political science, psychology, religious studies, sociology. A general program in gerontology must be combined with another subject or completed as a second degree.

Four-year honours
Available in: anthropology, economics, economics and computer science, economics and geography, economics and mathematics, economics and political science, geography, geography and environmental studies, geography and geology, gerontology, labour studies, political science, psychology, religious studies, sociology. In addition to taking the combined programs listed above, a student may also combine two social science subjects or a social science and humanities subject to make other combined honours programs.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Social sciences I".

• Bachelor of Commerce

Four-year general, four-year honours, four-year honours and arts – economics, offering a wide range of course work in the following areas: accounting, business policy, environment and international business, finance, human resources and labour relations, marketing, and production and management science and information systems.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Business I".

• Bachelor of Science

Three-year general
Available in: geography, psychology.

Four-year major
Available in: psychology.

Four-year honours
Available in: geography, geography and geology, psychology, psychology and biology.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Bachelor of Social Work/Bachelor of Arts

Four years

dmission requirements
dmission to the School of Social Work is
ontingent upon:
) completion of any year I program includ-
ng introductory courses in psychology and
ociology. Courses selected in year I should
e appropriate for the subject of concentra-
ion selected for the B.A. program in year II;
) a university average of at least 6.0 or its
quivalent in the year I program; and
) evidence of personal suitability as
valuated by one, or a combination, of writ-
en statements, interview, and tests.
nrolment in the B.A./B.S.W. program is
imited.

omen's Studies

Bachelor of Arts

our years
 limited-enrolment, combined honours B.A.
rogram with another subject of the
tudent's choice. This program encourages
eassessment of the traditional academic
isciplines to create a more balanced under-
tanding of women and men.

dmission requirements
ee *General Admission Requirements*
completion of any level I program with a
eighted average of at least 7.0 in twelve
nits of work, including a grade of at least B-
 women's studies 1A06 and satisfaction of
dmission requirements for the honours
.A. program in the other subject).

esidence Fees 1989-90

oom plus:	12 meals a week:	$3 287
	14 meals a week:	$3 678
	19 meals a week:	$3 825
oom only (available only in partment-style residences)		$1 745
eal plan only:	12 meals a week:	$1 742
	14 meals a week:	$1 933
	19 meals a week:	$2 080

Accommodation is available for 2 371
omen and men. The rooms are provided
ith staple articles of furniture: tables,
hairs, beds, mattresses, pillows, and all
ecessary bedding. Residence students are
equired to supply their own wash cloths
nd towels. A new residence will add 385
eds in September 1991.

The services of the infirmary, staffed by
ualified doctors and nurses, are available
 all resident students.

uition Fees 1989-90
ees below are the tuition and supplemen-
ary fees for full-time level I undergraduate
tudents only. (Part-time fees are charged
n a per-course unit basis. Contact the
niversity directly for charges.) These are
e fees that apply to Canadian citizens and
nded immigrants only.

rts and science I (special program)	$1 727.30
Business I$1 767.30	
Engineering I	$1 910.30
Nursing I	$1 785.30
Physical education I	$1 722.30
Medicine I	$3 169.00
All other programs	$1 732.30

Tuition fees for international students 1989-90

Arts and science I (special program)	$5 261.30
Business I	$5 301.30
Engineering I	$8 509.30
Nursing I	$8 514.30
Physical education I	$5 256.30
Medicine I	$12 645.00
All other programs	$5 266.30

Further Information

Information about admission requirements may be obtained from
Associate Registrar (Liaison and Admissions)
Room 120, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4796

General information about the university may be obtained from
Division of Student Liaison
Room 102, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone 525-9140 ext. 4787

Information about undergraduate academic awards and scholarships may be obtained from
Academic Awards Officer
c/o Student Financial Aid Office
Hamilton Hall, Room 401
McMaster University
Hamilton, Ontario L8S 4K1
Telephone (416) 525-9140 ext. 4319

Information and application forms for financial assistance may be obtained from
Director of Student Financial Aid and Scholarships
Hamilton Hall, Room 401
McMaster University
Hamilton, Ontario L8S 4K1
Telephone (416) 525-9140 ext. 4319

Information about the medical program and nursing programs may be obtained from
Assistant Registrar (Health Sciences)
Room 1B7, Health Sciences Centre
McMaster University
Hamilton, Ontario L8S 3X5
Telephone (416) 525-9140 ext. 2114

Ontario College of Art

Toronto

President: Timothy Porteous

The Ontario College of Art provides the environment and educational programs for developing outstanding artists and designers. The college prepares its graduates for professional excellence, maturity, and originality in their careers by offering them a well-rounded college education that encourages them to develop their social and intellectual strengths. OCA graduates have a tremendous impact on the cultural, commercial, and industrial sectors of Canadian life.

Enrolment 1989-90

	Undergraduate
Full-time	1 282
Part-time	1 851

General Admission Requirements
The minimum academic requirement for admission to the Ontario College of Art four-year diploma program is the OSSD (30 credits) or its equivalent. Applicants will be required to present a portfolio. This portfolio is the primary criterion for acceptance into the foundation year 1 program.

No special subjects are required, but consideration will be given to additional academic achievement, relevant experience, and specialized education in art and design. The OSSGD with 27 credits is acceptable from applicants who graduated before the introduction of the OSSD. Applications for admission in September 1991 will be closed April 1, 1991.

Undergraduate Program
The college grants the Associate of the Ontario College of Art (A.O.C.A.) diploma upon graduation from the four-year program (32 credits).

In first year, students are introduced to a broad variety of ideas, approaches, media, materials, methods, processes, and applications through the program of the Department of Foundation Studies. This program is designed to heighten perception and awareness and to develop visual creativity. The compulsory courses include drawing, two-dimensional design, three-dimensional design, media, colour, and a lecture/seminar course.

After first year, students may choose from a variety of programs: specialist, major, double major, or combined. Students wishing to specialize in the art programs may choose studies in painting and drawing, sculpture/installation, printmaking, and new media (video, film, electronics, computers).

Those in the design programs may study in advertising, advertising or editorial illustration, editorial or corporate design, and industrial and environmental design.

Programs are also available in media and materials – ceramics, glass, jewellery, surface design/print, and textiles, with support in film/video/audio, foundry, holography, metal, plastics, and wood.

Interdisciplinary studies and interdepartmental programs are available with special approval. There is an extensive array of lecture/seminar courses associated with the program.

Detailed program and course descriptions are listed in the college calendar, available through the Registrar's Office.

Each student has a faculty adviser who assists in choosing courses and in formulating long-range program objectives. The adviser is concerned with developing with the student an ongoing and open communication to foster overall progress and general welfare.

Students in years 2, 3, and 4 will choose their advisers from among the faculty members. When possible, this adviser will be one of their course instructors. Students are expected to meet individually with their adviser at least once a month.

Postdiploma Program

The Ontario College of Art offers a fifth year of study to students holding the A.O.C.A. diploma or its equivalent. The program is designed to provide students with a year of intensive study in one of the fields of concentration offered in the college program. While no further diploma is awarded, admission and academic standing in the fifth-year program, as well as final evaluations, are recorded on the student's academic record.

Part-Time Day and Evening Programs

The college can accommodate a limited number of part-time students within the regular daytime program.

A variety of credit courses are offered during the evenings and in the summer. Admission requirements, evaluation procedures, and credit requirements for part-time students are the same as those applying to students in the full-time program. Further information and course descriptions are available from the registrar's office.

Transfer Credit Arrangement with the University of Guelph

Depending on the academic qualifications on admission to OCA and on the courses taken, students who graduate with the A.O.C.A. diploma are usually credited with one to one-and-a-half years in the University of Guelph's three-year B.A. program. Because of the trimester system at the University of Guelph, it is possible for the OCA undergraduate to pursue B.A. studies by taking the spring semesters at Guelph, usually May 1 to August 15, following the completion of the OCA regular session in April. In short, it is possible for a student to obtain both the A.O.C.A. diploma and the University of Guelph B.A. degree in less than four full years of study. This possibility will be of particular interest to those who wish to teach art in Ontario schools.

Tuition Fees 1990-91

Total $1 605

Total yearly fee for applicants from outside Canada is $5 698.

Financial Assistance

Students in financial need may apply for assistance through the Ontario Student Assistance Program. (See the introductory section, *Financial Assistance for Students,* for details.) Both full- and part-time students may apply; depending on course load and financial need, they may qualify for a grant or a loan or a combination of both.

Further Information

For information about admission, campus visits, or school liaison, please contact
Anne Graham, Admissions/Liaison Co-ordinaotr
Ontario College of Art
100 McCaul St.
Toronto, Ontario M5T 1W1
Telephone (416) 977-5311 ext. 236

University of Ottawa

Ottawa

Rector: Dr. Marcel Hamelin

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	13 313	1 702
Part-time	7 588	1 929

Faculties, Schools, and Institutes

Faculty of Administration
Faculty of Arts
Faculty of Education
Faculty of Engineering
Faculty of Health Sciences – (School of Human Kinetics, School of Nursing, Physiotherapy Program, Occupational Therapy Program)
Faculty of Law
Faculty of Medicine
Faculty of Science
Faculty of Social Sciences
School of Graduate Studies and Research
Institute for International Development and Co-operation

Federated University and Affiliated College

Saint Paul University, Ottawa

General Admission Requirements

OSSD including at least six OACs. Students currently completing Grade 13 courses will be considered for admission upon completing the OSSD or the OSSHGD.

Bachelor of Arts

OSSD requirements for admission to a Bachelor of Arts program include: six OACs, including English or *français*, with an overall average of at least 65%. Due to the large number of applicants, the Faculty of Arts admits few students whose average is less than 70%.

Additional requirements: B.Mus.: audition and written examination; B.F.A. (studio and photography): interview and portfolio; B.A. (mathematics): two credits from calculus, algebra or algebra and geometry, or functions and relations (calculus is strongly recommended).

Bachelor of Science and Bachelor of Applied Science

OSSD requirements for admission to either of these programs are: two mathematics credits (calculus or algebra or algebra and geometry or functions and relations[1]); one chemistry credit;[2] one physics credit;[2] and other courses to make up six credits.

Notes: 1. Applicants to the B.Sc. who have two mathematics credits not including calculus may be admitted with a requirement to pass a make-up course in calculus during the first year. Applicants to engineering programs will not normally be admitted without calculus.

2. Applicants lacking one credit in chemistry or physics may be admitted with a requirement to pass a make-up course in the missing subject during the first year. Applicants to engineering programs must complete both sciences.

A minimum average of 65% in science and all mathematics subjects is required, as is an overall average of 70%, except for computer engineering and electrical engineering, where a 73% average is necessary.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general
Available in: life sciences.

Three-year major/four-year honours
Available in: biochemistry, biochemistry (nutrition), biochemistry (biotechnology), biology, biology (biotechnology).

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/Leisure Studies

• Bachelor of Education
One-year program, leading to elementary or secondary school teaching.

Admission requirements
A recognized bachelor's degree.

• Bachelor of Physical Education

Four-year honours

Admission requirements
Minimum overall average of 70% in six OACs, with one credit in English or *français*, and five other credits. One mathematics and one chemistry course recommended. Limited-enrolment program.

• Bachelor of Science in Kinanthropology

Four-year honours

Admission requirements
Minimum overall average of 68% in six OACs, with one credit in English or *français*, chemistry, physics, and two mathematics from algebra, algebra and geometry, calculus, and functions and relations.

Note: Applicants presenting only one credit in chemistry or physics and only one in mathematics may be admitted. These applicants must pass a make-up course in the missing subject(s) during the first year.

• Bachelor of Social Sciences with Honours in Recreology

Four years/four and one-half years (co-op)

Admission requirements
Minimum overall average of 68% in six OACs.

Engineering and Applied Sciences

• Bachelor of Applied Science

Four years/four and one-half years (co-op)
Available in: electrical, chemical, civil, computer, and mechanical engineering.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Applied Science (Engineering Management Program)

Five years

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Fine and Applied Arts

• Bachelor of Arts

Three-year concentration
Available in: music, theatre, visual arts.

Four-year honours
Available in: music, theatre, theory and history of art.

• Bachelor of Fine Arts

Four-year honours
Available in: photography, studio.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Music

Four-year honours
Available in: composition, music education, musicology, performance and theory.

Admission requirements
An overall average of at least 68% in six OACs. See *General Admission Requirements*, "Bachelor of Arts".

Health Professions and Medical Sciences

Bachelor of Science in Nursing

Four-year honours

Admission requirements
OACs in English or *français*, biology, chemistry, and three other credits. Grade 12 advanced mathematics is also required. An average of 65% is required in the science courses, with a minimum overall average of 73%. The candidate must provide proof of completion of a cardio-pulmonary resuscitation (CPR) course. Limited-enrolment program. Physiotherapy and occupational therapy programs: chemistry, biology, physics, one mathematics, and *français or* English; enrolment is limited to 30 in occupational therapy and 40 in physiotherapy; the student must be fluently bilingual to be admitted to either program; some of the courses will be offered in only one of the two official languages; minimum average of 75% required.

• Doctor of Medicine
Candidates in the following categories are eligible to apply for admission to the first year of the four-year M.D. program:
a) students who have successfully completed the first two years of a recognized bachelor's program, provided it includes at least one year of physics, one year of general and inorganic chemistry, one year of general biology or zoology, and one year of organic chemistry;
b) students of other universities who have completed studies equivalent to those listed in (a), provided that such studies comply with the regulations of the College of Physicians and Surgeons of Ontario. The Medical College Admission Test (MCAT) and an interview are also part of the selection procedure.

Humanities and Related Courses

• Bachelor of Arts

Three-year concentration
Available in: Canadian studies, classical art and archeology, classical studies, communication, criminology*, economics*, English, geography, German, history, Italian, *langue française, lettres françaises*, linguistics, mathematics, mediaeval studies, music, philosophy, political science*, psychology*, religious studies, Slavic studies, sociology*, Spanish, theatre, visual arts, women's studies.
*Within a double program only.

Four-year honours
Available in: classical studies, communication, English, geography, history, *lettres françaises*, linguistics, mathematics,music, philosophy, religious studies, Slavic studies, Spanish, theatre, theory and history of art, translation.

Four-year co-op program
Available in: geography, history, translation.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general/four-year honours
Available in: mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: earth sciences, physical sciences.

Three-year major/four-year honours
Available in: chemistry, computer science, geology, geology-physics, mathematics, mathematics-science, physics, physics and mathematics (combined).

Co-operative programs
Available in: mathematics-sciences (five years), computer sciences (four years).

Admission requirements
See *General Admission Requirements*, "Bachelor of Science". The computer science program has limited enrolment.

Social Sciences and Related Courses

• Bachelor of Administration

Three years

• Bachelor of Commerce

Four-year honours
Specializations available in: accounting, management and information systems. Majors available in: finance, human resources management, management science, marketing, public policy and public management.

Co-operative programs (four years)
Available in: accounting, management and information systems.

Admission requirements
Six OACs including one credit in English or *français*, two credits in mathematics from algebra, algebra and geometry, functions and relations, or calculus (calculus is strongly recommended), and three other credits. If finite mathematics is presented, the other mathematics must be calculus. Minimum overall average of 72%. Limited-enrolment program.

Note: The B.Adm. and B.Com. programs are given by the Faculty of Administration.

• Bachelor of Arts

Three-year concentration
Available in: Canadian studies, classical art and archaeology, classical studies, geography, history, medieval studies, Slavic studies, women's studies.

Four-year honours
Available in: classical studies, geography, history, Slavic studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Arts in Psychology

Three-year concentration/four-year honours
Given through the Faculty of Social Sciences.

Admission requirements
One credit in English or *français*, and five other credits. Minimum overall average of 70%. Limited-enrolment program.

• Bachelor of Laws
(Common Law section of the Faculty of Law)
Three-year program following a minimum of two years of a recognized bachelor's program. The Law School Admission test (LSAT) is also required.

• Licence en Droit
(Section de Droit civil de la Faculté de Droit)
Programme de trois ans après le baccalauréat ès arts ou l'obtention d'un diplôme jugé équivalent. Tout candidat doit écrire un test d'admission.

• Bachelor of Laws – Licence en Droit (combined)
A common content of Canadian law subjects makes it possible to combine both programs, enabling students to obtain both degrees in four years.

• Bachelor of Social Sciences

Three years (one or two concentrations)
Available in: Canadian studies, criminology, economics, leisure studies, political science, psychology, public policy and public management*, sociology, women's studies*.
*Within a double concentration only.

Four-year honours
Available in: criminology, economics, political science, psychology, recreology, sociology.

Admission requirements
Minimum overall average of 68% in six OACs. The student who wishes to study economics must present one credit in calculus. The student who wishes to study psychology must present a credit in English or *français* and must have an overall average of 70%. Criminology and psychology have limited enrolment.

Note: The Faculty of Social Sciences offers a joint program with honours in criminology, economics, political science, recreology, sociology, and psychology and a concentration in one of the following disciplines: Canadian studies, classical art and archaeology, classical studies, communication, criminology, economics, English, geography, German, history, Italian, *langue française, lettres françaises*, linguistics, mathematics, medieval studies, music, philosophy, political science, psychology, public policy and public management, religious studies, Slavic studies, sociology, Spanish, theatre, visual arts, women's studies.

Residence
Academic year 1990-91
Single room $1 864
Double room $1 585
The student residences on campus are Marchand Hall (347 men and women), Stanton Hall (361 men and women), Leblanc Hall (114 men and women), Thompson Hall (459 men and women), and Brooks Residence (708 men and women). Students with an admission average of 85% or better are given priority for accommodation in residence.

Scholarships and Financial Assistance
Students in financial need may apply for assistance from a variety of sources. Government assistance is available to full-time students in the form of grants and/or loans and to part-time students as bursaries or loans.

For further information concerning gove ment assistance see the introductory section *Financial Assistance for Students* and check with the university's Student Financ Aid Office, which will also have details on bursaries and scholarships offered by the university.

Tuition Fees 1989-90
(including incidental fees)
Medicine $2 133
Engineering $1 850
Science (pre-science year) $3 517
All other programs $1 721

Further Information
Inquiries about undergraduate admission should be directed to
Mr. André Pierre Lepage, Director of Admissions
Office of the Registrar (Admissions)
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3928

Information and application forms for student awards and loans may be obtained from
Ms. Danielle Delorme, Director
Student Financial Aid Office
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-2484

For information about university programs, write to
Joanne Forest, Liaison Co-ordinator
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-2262

Inquiries regarding campus visits for students should be directed to
Campus Tours
Office of the Registrar
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3937

[illegible]

Saint Paul University is federated with the University of Ottawa. It offers programs in Theology (Certificate, B.Th., M.A.(Th.), Ph.D.(Th.)), Canon Law (B.C.L., M.C.L., Ph.D. (C.L.)), Pastoral Studies (M.A. in Past. St.), Mission Studies (Certificate, M.A in Miss.) and, in French only, Animation (Certificate). All degrees and certificates ar conferred jointly by the University of Ottawa and Saint Paul University.

For further information, please contact
The Registrar
Saint Paul University
223 Main St.
Ottawa, Ontario
Telephone (613) 236-1393

Queen's University

Kingston

Principal: David C. Smith

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	10 887	1 901
Part-time	3 651	544

Faculties and Schools
Faculty of Arts and Science
School of Business
School of Physical and Health Education
Faculty of Applied Science
School of Nursing
School of Rehabilitation Therapy
School of Music
Faculty of Medicine
Faculty of Law
Faculty of Education
School of Graduate Studies
Queen's Theological College
School of Urban and Regional Planning
School of Public Administration
School of Industrial Relations

General Admission Requirements
Applicants must satisfactorily complete the OSSD or equivalent as certified by the school. No student with an average of less than 60% will be considered for admission. Because of space limitations, preference will be given to students with the best qualifications.

Students, in planning their secondary school programs, should note that a number of courses taken in the first university year have secondary school prerequisites. Details may be found in the general information book, *Your Future at Queen's*. Generally, students continuing university work in the mathematics or natural sciences are expected to have OAC or equivalent standing in those subjects.

Conditional offers of admission are made each year before the completion of the final high school year to students who have achieved satisfactory standing and are recommended by their school officials. Such conditional offers of admission will be withdrawn if a student fails to complete the final secondary school year satisfactorily. The details of standing required for admission are determined each year and vary among the faculties and schools.

Bachelor of Arts
A Bachelor of Arts degree may be obtained in either three years or four years (honours). The three-year B.A. includes 15 courses over the three-year period, with a minor concentration of five courses in one subject area, plus supporting courses and electives. Minor concentrations are listed under specific subject areas.

The honours B.A. includes a minimum of 19 courses over the four-year period, arranged in one of the following patterns:
a) major concentration of 10 courses in one subject area, plus supporting courses and electives;
b) two medial concentrations of seven courses each, in two subject areas (one must be in the humanities or social sciences), plus supporting courses and electives;
c) a special field concentration of 14 courses in several different subjects organized around a particular period, culture, problem, or discipline area, plus electives. Concentrations for the honours program are listed under specific subject areas.

Admission to either the four-year honours B.A. or the three-year B.A. is based on successful completion of a full year of academic work at the OAC or equivalent level as certified by the school. Although OAC English I is the only subject requirement for admission into a Bachelor of Arts program, students intending to take concentrations in languages, computing and information science, mathematics, statistics, or natural science should include appropriate prerequisites in their secondary school program. The list that includes admission requirements into the Bachelor of Science program (see the following section) is a guide to the prerequisites for minor or medial concentrations in computing and information science, mathematics, statistics, and natural science subjects.

Honours concentrations entirely in mathematics and the natural sciences lead to the degree of B.Sc. (Honours).

Bachelor of Science
A Bachelor of Science degree takes four years to complete and consists of a minimum of 20 courses arranged in one of the following patterns:
a) a major concentration of 10 courses designated by one department, plus supporting courses and electives; or
b) two seven-course medials in two related science subject areas, plus six electives. Combinations of medials are restricted to those specified in the calendar for the Faculty of Arts and Science; or
c) a highly specialized concentration of up to 18 courses involving intensive study in a given area specified by one or more departments, plus electives.

Major concentrations and specialized concentrations are listed under specific subject areas. Fourteen-course concentrations in the B.Sc. honours program are listed under the heading *Mathematical and Physical Sciences*, below.

Requirements for admission to the B.Sc. programs are as follows: OAC English I; a minimum of three credits from OAC algebra and geometry, calculus, chemistry, and physics.

Please see the book *Your Future at Queen's* for recommended prerequisites for each science discipline.

Candidates lacking the recommended prerequisites must make up the deficiencies in first year. Applicants who are short prerequisite courses for B.Sc. programs may be required to enrol as B.A. students until these deficiencies have been overcome.

Biological Sciences

• Bachelor of Arts

Three-year (minor concentration)
Available in: biochemistry, biology, life sciences.

Four-year honours (medial concentration)
Available in: a concentration in biology, plus a concentration in a subject area from the humanities or social sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Four-year honours (major concentration)
Available in: biology.

Four-year honours (medial concentration)
Available in: biochemistry and computing information science, biology and chemistry, biology and geological sciences, biology and geography, biology and computing information science, biology and mathematics, biology and physics, biology and psychology, biology and statistics.

Four-year honours (subject of specialization)
Available in: biochemistry, biology, life sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/ Recreation

• Bachelor of Education
The Faculty of Education offers programs leading to a Bachelor of Education or a diploma in technical education. In most cases students qualify for the Ontario Teacher's Certificate, but they can qualify for the degree without certification. The two program routes are consecutive (one year, postdegree) and concurrent (offered jointly with arts and science).

Continuing education for teachers is available and programs leading to a Master of Education degree may be taken on either a part- or full-time basis.

• Bachelor of Education – Consecutive Programs
The Faculty of Education offers three one-year programs leading to a B.Ed. for graduates of a general or honours degree program. Upon completion, graduates will normally be recommended to the Ontario Ministry of Education for an Ontario Teacher's Certificate.

The three programs are: primary-junior for teachers of kindergarten to Grade 6, junior-intermediate for Grades 4 to 10, and intermediate-senior for Grades 7 to 13.

Candidates complete a practicum that includes student teaching and community service. The eight weeks of student teaching take place in selected elementary and secondary schools in eastern and northern Ontario. The community service involves educationally related practical experience in the community.

Technological studies program
This program leads to the Ontario Teacher's Certificate and qualifies the holder to teach in the technical department of a secondary school in Ontario. Applicants must have completed Ontario Grade 12 (or equivalent) plus five years of further education or at least two years' work experience.

Non-certificate programs
There is provision for candidates to complete a program leading to the B.Ed., which may not lead to the Ontario Teacher's Certificate. Candidates may wish practicum experience in areas that do not lead to this certificate, such as community colleges, art galleries, or community theatres.

Further information about any of the programs may be obtained from the Registrar, Faculty of Education, Queen's University, Kingston, Ontario K7L 3N6.

• Faculty of Arts and Science/Faculty of Education – Concurrent Programs

The Faculty of Arts and Science and the Faculty of Education offer concurrent programs leading to the following degrees: B.A./B.Ed., B.A. (Honours)/B.Ed., B.Sc. (Honours)/B.Ed. The requirements for, and structure of, each of the arts and science degrees is described above.

During the first three years, students take 15 of the courses required for the arts and science degree, and complete approximately 30% of the requirements for the B.Ed. degree. Students working toward an honours degree in arts and science spend their fourth year entirely in arts and science, returning to the concurrent program for their fifth and final year.

In the fall term of the final year of the program, students take any courses needed to complete the requirements for the arts and science degree, and they also complete the remaining course requirements for the B.Ed. degree. During the winter term, students complete a four-month internship in selected schools.

Admission requirements
Applicants must satisfy the general admission requirements for Queen's, plus the specific admission requirements for the desired arts and science degree program and concentration. It is also recommended that students complete Grade 12 English and mathematics.

• Bachelor of Physical and Health Education and Bachelor of Arts Program

Combined program
A four-year program consisting of 25 courses in arts and physical and health education. Courses in biology, psychology, sociology, anatomy, and physiology set the basis for the specific theoretical and practical study of sport, fitness, health, and physical activity. Optional courses are available in arts, science, commerce, and physical activity theory and practicum so that preparation for future careers is optimal. Upon successful completion of the program, students are granted a Bachelor of Arts degree and a Bachelor of Physical and Health Education degree.

Admission requirements
OSSD, including OAC chemistry and OAC English I. Students are advised to include OAC physical and health education if offered by their school.

Engineering and Applied Sciences

• Bachelor of Science – Engineering

A four-year engineering program offered by the Faculty of Applied Science leading to a Bachelor of Science. The first year is common to all engineering programs, with the student taking courses in mathematics, physics, chemistry, geology, engineering graphics, computer programming, and one elective course dealing specifically with the impact of technology on society.

Before beginning second year, the student must select one of the following 10 programs: chemical engineering, engineering chemistry, civil engineering, electrical engineering, geological engineering, mathematics and engineering, mechanical engineering, metallurgical engineering, mining engineering, or engineering physics.

Admission requirements
The OSSD, including OAC credits in calculus, algebra and geometry, chemistry, English, and physics. Admission is based on a comprehensive evaluation of the student rather than on academic record alone, and students are invited to submit any information, in addition to Queen's requirements, that they feel would be helpful in making admission decisions.

Fine and Applied Arts

• Bachelor of Arts

Three-year general (minor concentration)
Available in: art history, drama, film, music.

Four-year honours (medial concentration)
Available in: art history, drama, film, music.

Four-year (major concentration)
Available in: art history, drama, film, music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Fine Art

This is a four-year program offered by the Department of Art that maintains a balanc of studio and academic studies. The program promotes high critical standards and high level of awareness, understanding, a excellence in the study and practice of art.

The curriculum consists of 20 courses: 1 courses in fine art, five in art history, and five electives. The studio courses include drawing, painting, sculpture, and printmaking, for a minimum of 18 hours each week.

Graduates of the Bachelor of Fine Art pr gram may pursue a variety of careers, including careers as artists, secondary scho teachers (provided they complete a fifth year at a faculty of education), teachers in postsecondary institutions, or as museum gallery personnel.

Admission requirements
OSSD or equivalent, including OAC Englis I. OAC art should be included where possible, but it is not mandatory. Assessment for admission rests on an interview and portfolio examination, as well as on academic achievement.

• Bachelor of Music

This is a broad four-year course of study designed to meet the needs and interests o future professional musicians, with areas o specialization in performance, instrumental and choral music in education, history and literature of music, and theory and compos tion.

Students in all of these concentrations have the option of studying performance in individual lessons. In addition, all students participate in the work of the small and larg ensembles of the Music Department. This program also includes a minimum of four and a maximum of six courses offered by other departments.

Admission requirements
Academic requirements: OSSD, including OAC English I.
Music requirements: The following Royal Conservatory of Music (Toronto) levels (or equivalents) are normal requirements:

Grade 9 piano, Grade 2 rudiments; *or*
Grade 8 organ, Grade 8 piano, and
Grade 2 rudiments; *or*

Grade 8 standard orchestral or band instrument,-or classical guitar, or voice, or fre bass accordion; Grade 6 piano; and Grade 2 rudiments.

All applicants will be invited to appear for a personal audition, interview, and brief aural discrimination and music rudiments tests. Auditions are normally held in March or April of each year, except where distanc makes a personal visit unduly difficult. In this case, applicants may be permitted to submit an audition tape authenticated by their teachers.

Applicants who do not have the music requirements specified above, but who are e perienced as instrumentalists or singers, may be admitted on the basis of the qualifying audition. Those candidates who have not completed the Grade 6 piano requirement prior to entering the B.Mus. program must do so, at their own expense, before proceeding to second year.

• Licentiate in Music

The Licentiate in Music program is a two-year diploma course designed for talented performance students who value a focus on performance study more than the breadth of music training inherent in a degree program.

Admission Requirements
Academic requirements: OSSD, including OAC English I.

Music requirements: Royal Conservatory of Music (Toronto) Grade X, or equivalent. Applicants are also required to appear for an audition (details of the audition requirements for a candidate's area of performance may be obtained by writing to the School of Music). If distance makes an audition in person difficult, applicants may be permitted to prepare and send an audition tape (authenticated by their teacher).

Health Professions and Medical Sciences

• Bachelor of Arts

Three-year general (minor concentration)
Available in: health.

• Bachelor of Nursing Science

A four-year integrated program of basic sciences, humanities, and nursing leading to a Bachelor of Nursing Science degree. Clinical practice in hospitals and community health settings is an important element within each year of the program. In addition, there are five weeks of concentrated clinical practice at the end of the first and third years of the program.

The Bachelor of Nursing Science program prepares individuals for employment in a wide range of health care services, including general hospitals, chronic care and rehabilitative facilities, home care, psychiatric services, northern nursing services, and public health. With experience, individuals may also embark on careers in nursing administration and nursing education.

Graduates are eligible to write examinations for registration as a nurse in Ontario and other Canadian provinces.

Admission requirements
OSSD, including one credit in mathematics, chemistry, biology, and English.

The deadline for receipt of applications is March 1.

• Doctor of Medicine

A four-year program leading to the degree of Doctor of Medicine. The main objective of the structured program is to afford students the maximum opportunity to develop the knowledge, skills, and attitudes that will best motivate and equip them to choose the field of endeavour most appropriate to their talents. The curricula and educational methods are under continual scrutiny with this main objective in view.

Admission requirements
Seventy-five students are admitted annually into the first medical year. They are selected on the basis of a strong academic record and the assessment by the Admissions Committee of personal characteristics felt to be most appropriate for the study of medicine at Queen's and for the subsequent practice of medicine. The application centre must receive applications by November 1.

To be eligible for admission, students must have successfully completed at least two years of university work beyond Grade 13 and have credit for one full university course, including laboratory work, in each of the following subject areas: general physics, general chemistry, general biology or zoology, and organic chemistry.

All candidates are required to write the New Medical College Admissions Test. The Admissions Committee does not give preference to applicants who have studied in a particular undergraduate program. The baccalaureate degree is not required, and candidates having completed two or three years of university work will be given the same consideration as candidates possessing an undergraduate or graduate degree. Place of residence and location of the university where studies have been undertaken are not criteria in the selection process. In making its selection, the Admissions Committee carefully considers autobiographical information submitted by the applicant and assessments made by references. Candidates may seek additional information by writing or telephoning the Office of Undergraduate Medical Education and Admissions, (613) 545-2542.

• Occupational Therapy

A four-year degree program leading to a Bachelor of Science (Occupational Therapy). The student will take courses in anatomy, occupational therapy, physiology, kinesiology, psychology, sociology, plus a number of electives. In the fourth year the student will study specialized research and clinical topics such as principles of management in rehabilitation, technical aids, and research in occupational therapy.

There are eight weeks of supervised clinical practice between the second and third years, and 16 weeks between the third and fourth years, to complete university requirements. This precludes summer employment.

Admission requirements
OSSD, including one credit in mathematics, one credit in chemistry, and one credit in biology. Selection will be based on academic qualifications and on information gained from a personal information form. An interview is not mandatory and is not an integral part of the admission process. Enrolment is limited to 35 students. The deadline for receipt of applications is March 1.

• Physical Therapy

A four-year degree program leading to a Bachelor of Science (Physical Therapy). Students will take courses in anatomy, kinesiology, physical therapy, physiology, and psychology, plus a number of options. In the fourth year, they will study research and clinical development and the administration of a physical therapy department, and will conduct an in-depth study of a selected clinical subject.

In addition to clinical work during the academic year, there are eight weeks of supervised clinical practice between the second and third years, and 16 weeks between the third and fourth years, to complete university requirements and for provincial licensing. This precludes summer employment.

Admission requirements
OSSD, including one credit in mathematics, one credit in chemistry, and one credit in biology. OAC physics is strongly recommended. Selection will be based on academic qualifications and on the information gained from a personal background information form. An interview is not mandatory and is not an integral part of the admission process. Enrolment is limited to 35. Only half of the places are offered to students applying directly from high school. The deadline for receipt of applications is March 1.

Humanities and Related Courses

• Bachelor of Arts

Three-year (minor concentration)
Available in: classical studies, English, French, German, Greek, Italian, Latin, modern literature, philosophy, religion, Russian, Spanish, women's studies.

Four-year honours (medial concentration)
Available in: classical studies, English, French, German, Greek, Italian, Latin, philosophy, religion, Spanish, women's studies.

Four-year honours (major concentration)
Available in: classical studies, English, French, German, Greek, Latin, philosophy, religion, Spanish.

Four-year honours (special field concentration)
Available in: Canadian studies, classics, classical studies, Commonwealth studies, Greek language and civilization, language and linguistics, Latin language and civilization, Spanish and Latin American studies, translation (Department of French Studies), women's studies.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

• Bachelor of Theology: B.Th.
A three-year program in theology for a few selected older students (over 35 years of age). Completion of five arts courses is a prerequisite.

• Master of Divinity: M.Div.
A three-year graduate program for students preparing for the ordained ministry of the church. Courses include Hebrew Bible, New Testament, biblical languages, study of religion, systematic theology, church history, ethics, and the practice of ministry.

• Master of Theology: Th.M.
A one-year post-M.Div. program for clergy and church workers who seek further training in pastoral care and counselling.

• Master of Theological Studies: M.T.S.
A two-year graduate program in academic theology that enables students to study particular areas in some depth.

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year (minor concentration)
Available in: chemistry, computing and information science, geological sciences, mathematics, physics, statistics.

Four-year honours (medial concentration)
Available in: a combined concentration of chemistry, computing and information science, geological sciences, mathematics, physics, or statistics, and another concentration area from the humanities or social sciences.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

• Bachelor of Science

Four-year honours (major concentration)
Available in: chemistry, computing and information science, geography, geological sciences, mathematics, physics, statistics.

Four-year honours (medial concentration)
Available in: biology and physics, chemistry and biology, chemistry and computing and information science, chemistry and geography, chemistry and geological sciences, chemistry and mathematics, computing and information science and biochemistry, computing and information science and biology, computing and information science and geography, computing and information science and mathematics, computing and information science and physics, computing and information science and geological sciences, computing and information science and statistics, geological sciences and biology, geological sciences and geography, mathematics and physics, physics and statistics.

Four-year honours (specialization concentration)
Available in: astrophysics, cognitive science, chemical physics, chemistry, geological sciences, geography, geological sciences with physics, mathematical physics, mathematics, physics, statistics, theoretical physics.

Admission requirements
See *General Admission Requirements,* "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year (minor concentration)
Available in: classical studies, economics, geography, history, political studies, psychology, sociology, women's studies.

Four-year honours (medial concentration)
Available in: classical studies, economics, geography, history, political studies, psychology, sociology, women's studies.

Four-year honours (major concentration)
Available in: classical studies, economics, geography, history, political studies, psychology, sociology, studies in culture, communications and society.

Four-year honours (special field concentration)
Available in: classical studies, communication culture and society, Greek language and civilization, Latin language and civilization, mediaeval studies, social behaviour, Spanish and Latin American studies, studies in culture, translation, women's studies.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

• Bachelor of Science

Four-year honours (major/specialization)
Available in: geography, psychology.

Four-year honours (medial concentration)
Available in: biology and psychology, geography and biology, geography and chemistry, geography and geological sciences.

Four-year honours (subject of specialization)
Available in: cognitive science, geography.

Admission requirements
See *General Admission Requirements,* "Bachelor of Science".

• Bachelor of Commerce
A four-year program designed to prepare students for careers in business, government, or law. The curriculum provides a balanced program embracing the fields of accounting, computing, finance, industrial and human relations, international relations, marketing, production, and quantitative methods. The student can select optional courses in computing and information science, economics, geography, history, languages, mathematics, philosophy, political studies, psychology, sociology, and the sciences.

Admission requirements
OSSD, including one credit in English and two credits in mathematics chosen from OAC calculus, algebra and geometry, and finite mathematics.

The School of Business also offers a two-year postgraduate program in business studies leading to the Master of Business Administration degree.

• Bachelor of Laws
A three-year program in law leading to the LL.B. degree.

The Faculty of Law, with a total enrolment of 450 students and a favourable professor-student ratio, encourages personal contact between professors and students. The faculty has expertise and resources in the fields of international law, constitutional law, administrative law, correctional and criminal law, family law, and labour relations law.

Admission requirements
A bachelor's or equivalent degree from a recognized university, *or* at least two years of academic work in a recognized university after high school graduation. Applicants should have yearly averages over 77% and law-aptitude test scores in the top third of the scoring range in order to be competitive. Place of residence and location of the university where pre-law studies have been taken are not considered.

All candidates are requested to write the Law School Admission Test (LSAT).

• Master of Industrial Relations
The MIR degree program is administered by the School of Industrial Relations in close association with the School of Business, Faculty of Law, and Department of Economics. The philosophical orientation of the program is multidisciplinary, stressing the application of theoretical knowledge and empirical analysis to a broad range of industrial relations issues. Its purpose is to prepare students for a variety of career opportunities in personnel and industrial relations, applied and policy-oriented research, and non-university teaching. the program is designed to attract new graduates as well as career employees wishing to change or upgrade their qualifications.

Admission requirements
A four-year honours degree with upper second-class standing from a recognized university or a three-year bachelor's degree with relevant and substantial work

xperience and demonstrated evidence of trong academic potential. Applicants must ave successfully completed a basic univer- ity-level course covering both micro- and macro-economics; elementary statistics is also desirable.

Master of Urban and Regional Planning (M.Pl.)
A two-year program of graduate studies to rain professional planners. Planning is an nterdisciplinary field, comprised primarily of ocial sciences, with some introduction to design and environmental studies. The M.Pl. program links theory with action and ntegrates management perspective in planning and development studies. Graduates of the program are employed as professional planners by public and private agencies.

The curriculum is comprised of six required core courses and eight or six electives, along with a "report" or "thesis", respectively. The core courses introduce basic theories and techniques common to all fields of urban and regional planning.

The school's offerings of elective courses are meant to promote an in-depth understanding of housing, land-use planning and community development, and program planning for human services. A field of concentration will normally consist of three courses, approved by the faculty adviser, from the offerings of the school or cognate disciplines, at least one of which will be a methodological course. Beyond the field of concentration a student will have ample opportunity to pursue other academic and professional interests, with the approval of the faculty adviser, through the remainder of the three or five electives from within the school as well as in other divisions of the university.

Admission requirements
A four-year honours bachelor degree in the social sciences, humanities, or design and engineering disciplines required. Applicants normally should have an upper second-class standing in the undergraduate degree to be considered for admission. A few candidates with a three-year bachelor degree are admitted as qualifying students for a year before being accepted in the M.Pl. program.

•School of Public Administration
The Queen's School of Public Administration offers two programs leading to a Master of Public Administration degree. The first is a one-year full-time program designed to meet the needs and interests of recent university graduates and mid-career public servants seeking to change or upgrade their qualifications. The second is a two-year, part-time In-Service Professional (IPS) program designed for mid-career public servants. Both programs are multidisciplinary and emphasize public policy and its role in society as well as the development of analytical and communication skills for effective public management.

Admission requirements
The normal minimum academic qualification is a four-year degree with upper second-class standing or its equivalent. Candidates with a three-year degree and significant public sector employment experience and/or evidence of strong academic potential will also be considered.

Residence
The university provides residence accommodation in single and double rooms for approximately 1 300 undergraduate men and 1 400 undergraduate women, including a fair proportion of upper-year students, and 300 graduate students of both sexes.

Bedrooms are furnished with a single bed, desk, chair, wardrobe or closet, and dresser for each student. In most areas, facilities include sitting rooms on various floors, large central lounges, study rooms, and music and recreation areas. Laundry equipment is available in each residence and includes coin-operated washers and dryers, irons, and ironing boards. Adress inquiries to the Residence Admissions Office, Brockington House, Queen's University, Kingston, Ontario, K7L 3X3. telephone (613) 545-2550.

An Accommodation Listing Service is provided to assist students, faculty, and staff to locate off-campus private housing accommodation. Information regarding the availability of private accommodation is on display in the office.

Office hours are 8:30 a.m. to 4:30 p.m. Monday to Friday, during the fall and winter term.

Address inquiries to the Office of Apartment and Housing Service, 169 University Avenue, Kingston. Telephone (613) 545-2501.

Residence fees 1989-90
$2 335(excluding meals)
$4 376 (single room including meals)
$4 210 (double room including meals)

Tuition Fees 1989-90
Tuition fees for full-time students are subject to change, but currently are as follows for Canadian students admitted to first year:

Applied science	$1 646
Arts and science	$1 517
Commerce	$1 517
Education	$1 517
Law	$1 517
Medicine	$1 929
Nursing	$1 517
Physical and health education	$1 517
Rehabilitation therapy	$1 517
MBA	$1 517

For information on international student fees, please contact the Admissions Office.

Further Information
For an opportunity to view university life as a Queen's student, students are welcome to visit the campus Monday through Friday at 10:30 a.m. during the academic year. During the summer months, students are invited to participate in guided tours of the campus, which leave the Liaison Office at 1 p.m. Monday – Friday.

Inquiries about general information and visits to Queen's should be directed to
Liaison Office
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2217

Inquiries regarding admission should be directed to
Assistant Registrar (Admissions)
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2218

Information on financial assistance available from the Student Awards Branch of the Ministry of Colleges and Universities can be found at the beginning of this guide. Students can make application for government assistance through the office of the Assistant Registrar (Student Awards).

Queen's University offers entrance and in-course scholarships based on academic merit. In addition, bursaries are available to assist students in emergency situations, and loans for upper-year students experiencing financial difficulty can be considered.

Information about student awards and loans may be obtained from
Assistant Registrar (Student Awards)
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2216

Royal Military College

Kingston

Commandant and Vice-Chancellor:
Commodore E.R. Murray

The Royal Military College opened in 1876. Its objectives are:
1. to prepare and motivate officer cadets for effective service as commissioned officers in the Canadian Forces by:
– providing a university-level education in both official languages in appropriate disciplines designed on a broad base to meet the unique needs of the forces, and
– developing qualities of leadership;
2. to improve in appropriate fields the educational background of students who are commissioned officers in the Canadian Forces by providing undergraduate and postgraduate courses in both official languages.

The courses of instruction provide a sound and balanced liberal, scientific, and military education. Cadet-wing organization and military training seek to develop a high degree of physical fitness in the officer cadets and to imbue them with a sense of responsibility, self-discipline, fair play, and fellowship. Officer cadets are given a basic knowledge of all elements while training in their chosen classifications and obtain a good understanding of the problems of national defence.

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	685	63
Part-time	44	44

General Admission Requirements
Ontario applicants completing the OSSD with six OACs may apply for Royal Military College or Royal Roads Military College. Those completing the OSSD with the prescribed advanced-level courses may apply to the College militaire royal de Saint-Jean. Evidence of final-year academic standing is not required at time of application.

A candidate for admission must:
1. be a Canadian citizen;
2. meet the minimal medical classification for enrolment as prescribed;
3. obtain a passing standing in a series of pre-enrolment tests as prescribed;
4. be single and undertake to remain single until commissioned;
5. possess the necessary academic qualifications;
6. obtain a passing standard from the pre-academic Basic Officer Training Course.

The preferred age range for entry to RMC, RRMC, or first year (not preparatory year) at CMR is from 16 years of age on January 1 of the year of enrolment to 20 years of age on January 1 of the year of enrolment.

For entry to the preparatory year at CMR, the preferred age range is from 16 years of age on January 1 of the year of enrolment to 19 years of age on January 1 of the year of enrolment.

Academic Qualifications
All degree programs at Canadian military colleges are of four years' duration beyond the normal secondary school level required for university admission, except for candidates entering the College militaire royal de Saint-Jean, where a five-year course is required.

• Degree Programs Offered
Arts, Engineering, Science

RMC offers degrees in arts, science, and engineering. There are seven bachelor of engineering (B.Eng.) options: civil, computer, electrical, mechanical, engineering physics, fuels and materials (chemical), and an industrial engineering option called engineering and management. A science (B.Sc.) degree can be earned in mathematics and physics, or in science (applied). Arts degree (B.A.) options range from English, history, and military and strategic studies to commerce, economics, and politics. The other military colleges offer administration, social science (Canadian studies), general science, applied military psychology, computer science, and physics and oceanography (among other alternatives).

Although there are many degree options, there are only two course patterns in the first year – the arts program and the general (science and engineering) program. The prerequisites for each differ; the general program requires more emphasis on mathematics, chemistry, and physics.

Language of Instruction
Both English and French are languages of instruction. Many degree courses are offered in both languages, but examinations may be taken in the language of the candidate's choice.

Royal Military College
Ontario secondary school students must present the OSSD, with a minimum of six OAC credits.

To meet the minimum requirements for admission to the general program at the Royal Military College, an applicant must offer standing at a level satisfactory to the college in the following subjects:
1. English or French (one credit course acceptable for Ontario applicants);
2. mathematics (calculus and alebra/geometry;
3. chemistry and physics; and
4. one elective OAC from those available for study.

To meet the minimum requirements for admission to the arts program at the Royal Military College, an applicant must offer standing at a level satisfactory to the college in the following subjects:
1. English (one or more credits);
2. mathematics (one credit) (calculus is preferred, although algebra/geometry is acceptable. Students with a credit in finite mathematics may be considered for admission provided they have obtained good standing in Grade 12 mathematics, advanced level);
3. four electives chosen from any of the offered OACs, but only one from among the following: dramatics arts, music, family studies, physical and health education, technology studies, visual arts.

In other provinces
English or French, mathematics, and one or two of chemistry and physics, and any other approved subject (or subjects) to make up the full requirements for graduation in the current year of work.

Royal Roads Military College
Requirements vary only slightly from those of the Royal Military College.

Preparatory year at Collège militaire royal de Saint-Jean
Graduates from secondary schools in Ontario should have successfully completed the OSSD including the following subjects: English (for English-speaking applicants) or *français* (for French-speaking applicants), mathematics (two credits), physics, and chemistry.

Physical Requirements
Candidates are required to meet the common enrolment standards of the Canadian Forces.
The fundamental medical requirement is a sound, healthy body with normal mental and muscular co-ordination. Particular attention is given to the cardiovascular system, respiratory system, central nervous system, visual acuity, colour vision, eye muscle balance, organs of speech, and sense of hearing. Any condition that, as it exists, or that, due to possible progression, may limit the candidate's career as a member of the Canadian Forces will be cause for rejection.

Candidates should be prepared to participate in a vigorous, progressive physical training program.

Financial Assistance
The fees of an officer cadet who is a member of the Regular Officer Training Plan will be paid for by the Department of National Defence. A cadet is also entitled to pay and allowances prescribed by the plan.

Applicants under the Reserve Entry Training Plan are eligible to apply for a number of scholarships and bursaries, including the Ontario Student Assistance Program.

Dominion Cadetships
Fifteen Dominion Cadetships, each worth the value of tuition, meals, and accommodation, are available to first-year reserve entry cadets at Canadian military colleges. A candidate must be the child of a person who

died, was killed, or is severely incapacitated as a result of service in a component of the Armed Forces of Canada.

Applications must be made in writing to
National Defence Headquarters
Ottawa, Ontario K1A 0K2
Attention: Director of Recruiting and Selection

Royal Military College Club of Canada Foundation Scholarships
A number of scholarships are open to competition each year among all reserve entry applicants for admission to the Canadian military colleges. Each scholarship has a value of $1 000 per year until graduation, providing the holder successfully completes each previous college year. An applicant, to be awarded a scholarship, must be accepted as a reserve entry candidate for the Royal Military College, Kingston, Ontario; Royal Roads Military College, Victoria, B.C.; or College militaire royal de Saint-Jean, Quebec.

Further information may be obtained from
Executive Director
RMC Club of Canada
Kingston, Ontario K7K 5L0

Residence Accommodation
All cadets at Canadian military colleges are in full-time residence at the colleges. At RMC single rooms are normally provided, except in the first year, when it is usually beneficial to place two cadets in a room. Dining facilities are provided. Full recreational facilities, including an indoor swimming pool, are located near the residences.

The college is divided into squadrons under the direction of cadet officers in their senior year, with an experienced serving officer as squadron commander. Overall direction is in the hands of the Director of Cadets.

Fees (Reserve Entry Cadets)
The following scale applies to all officer cadets attending a Canadian military college with reserve status *(fees quoted are subject to revision):*
1. college fee of $1 080;
2. payment for meals and accommodation (approximately $240 per month while in residence at a college);
3. an annual recreation club fee of $80.

Further Information
Direct inquiries to the commanding officer of any Canadian Forces Recruiting Centre, or write to
Registrar
Royal Military College of Canada
Kingston, Ontario K7K 5L0
Telephone (613) 541-6302

Ryerson Polytechnical Institute

Toronto

President: Terence Grier

Enrolment 1989-90
Undergraduate
Full-time 8 867
Part-time 2 806
Continuing education 11 670
The following program listing outlines basic admission requirements for Ryerson programs in 1990-91. Students are advised to contact the Office of Admissions for more detailed information.

Programs Offered

• Administration and Information Management – Degree
Four years, on a full- or part-time basis, leading to a Bachelor of Applied Arts (Administration and Information Management). Admission guidelines for, and details about, the part-time program appear in Ryerson's Part-time Degree Studies calendar. Students may apply to graduate with a diploma after successfully completing the first three years of the program, provided they meet graduation requirements.

Admission requirements
OSSD with six OACs including OAC English with a minimum of 60% or higher. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates with averages above the minimum. An advanced Grade 12 or OAC mathematics is recommended. The OSSD/OACs may be substituted for/combined with OSSHGD/ Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English.

• Aerospace Engineering – Degree
Four years, leading to a Bachelor of Technology (Aerospace Engineering). Students may apply to graduate with a diploma in aerospace engineering technology after successfully completing the first three years of the program.

Admission requirements
OSSD with six OACs, including English, algebra and geometry, calculus, physics, and chemistry. Applicants lacking one of the OAC prerequisites may be considered on an individual basis. Minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates with averages above the minimum. The OSSD/ OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/ *anglais* 1 is the preferred OAC English.

• Applied Chemistry and Biology – Degree
Four years leading to a Bachelor of Technology (Applied Chemistry and Biology). Students may apply to graduate with a diploma in applied chemistry and biology after successfully completing the first three years of the program.

Admission requirements
OSSD with six OACs, including chemistry, biology, and mathematics (calculus or algebra and geometry). Grade 12 advanced English, 60% or higher, is also required. Applicants lacking one of the OAC prerequisites may be considered on an individual basis. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates with averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above. Students are encouraged to include OAC calculus in their secondary school studies.

• Applied Computer Science – Degree
Four years leading to a Bachelor of Technology (Applied Computer Science).

Admission requirements
OSSD with six OACs, including English, mathematics - two credits (calculus, algebra and geometry, or finite mathematics). Preference will be given to those who have obtained 60% or higher in the above subjects. It is recommended that applicants include OAC physics in their studies. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above. OAC English/*anglais* 1 is the preferred OAC English.

• Applied Geography – Degree
Four years leading to a Bachelor of Applied Arts (Applied Geography).

Admission requirements
OSSD with six OACs. It is recommended that applicants include geography, English, and one mathematics course (calculus, algebra and geometry, or finite mathematics) in their OAC program. Applicants will be requested to appear for an admissions interview, if travelling distance permits. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The admissions interview and academic performance will be used in the admissions process. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above. OAC English/ *anglais* OAC 1 is the recommended English.

• Architectural Science – Degree

Four years leading to a Bachelor of Technology (Architectural Science).

Admission requirements
OSSD with six OACs, including English, Grade 12 advanced level mathematics, and physics. Applicants must have 60% or higher in each of the above subjects. They will be asked to submit a document indicating their interests and creative pursuits, and if travelling distance permits, they may be required to appear for an interview.

The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above. English/*anglais* OAC 1 is the preferred OAC English.

• Arts – Diploma

Three years leading to a Diploma in Arts.

Admission requirements
OSSD including any three Grade 12 academic subjects, such as English, economics, history, geography, any language, mathematics, physics, chemistry, or biology, with grades of 60% or higher at the advanced level or 70% or higher at the general level. Applicants will be requested to appear for an interview, if travelling distance permits.

• Business Management – Diploma and Degree

Four years leading to a Bachelor of Business Management degree. Offered on a full- or part-time basis. Admission guidelines for and details about the part-time program appear in Ryerson's Part-time Degree Studies calendar. After successfully completing three years of the program, student may apply to graduate with a diploma, provided they meet graduation requirements.

Admission requirements
OSSD with six OACs including English (60% minimum) and one mathematics course (calculus, finite mathematics, or algebra and geometry),with a minimum grade of 60% in each of these subjects. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The OSSD/OACs may be substituted for/combined with the OSSHGD/Grade 13 subjects. English/*anglais* OAC 1 is the preferred OAC English. OAC calculus or algebra and geometry is the preferred OAC mathematics. The second, third and fourth years of the program are being revised. For students who entered the program before fall 1989, admission to the fourth year is based on their completion of the Ryerson business administration diploma with a minimum 2.38 grade point average in the fifth and sixth semesters. A limited number of students will be admitted, and they will be ranked according to grade point average.

• Chemical Engineering – Degree

Four years leading to a Bachelor of Technology (Chemical Engineering). Students may apply to graduate with a diploma in chemical engineering technology after successfully completing the first three years of the program.

Admission requirements
OSSD with six OACs, including chemistry, physics, algebra and geometry, and calculus. Grade 12 advanced English with a final grade of 60% or higher is also required. Applicants lacking one of the above OACs may be considered on an individual basis. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above.

• Child and Youth Care - Degree (Part-Time)

The School of Child and Youth Care offers a Bachelor of Applied Arts to experienced practitioners in the child and youth care field. This postdiploma degree completion program is offered only on a part-time basis.

Admission requirements
A college of applied arts and technology (CAAT) diploma in child and youth work, with at least a B average and at least two years of relevant postdiploma work experience. Those with extensive work experience in the field but with postsecondary academic credentials other than the diploma in child and youth work will be considered on an individual basis.

• Civil Engineering – Degree

Four years leading to a Bachelor of Technology (Civil Engineering). Students may apply to graduate with a diploma in Civil Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSD with six OACs, including chemistry, physics, algebra and geometry, and calculus. Grade 12 advanced English with a final grade of 60% or higher is also required. Applicants lacking one of the above OACs may be considered on an individual basis. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above.

• Early Childhood Education – Degree

Four years leading to a Bachelor of Applied Arts (Early Childhood Education). Part-time attendance permitted by special application.

Admission requirements
OSSD with six OACs, including English (minimum 60%). Candidates will be selected on the basis of their overall average in six OACs(or equivalent), the interview, and the essay as noted below. Approved students who do not hold either a valid standard Red Cross or St. John's first aid certificate must obtain a certificate within the first two months, subsequent to registration in year 1. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English.

Applicants are required to write an essay during the interview. They should have experience working with children in groups. Examples of appropriate experiences are: volunteer work in day care centres, leading Brownie packs, camp counselling, work in parks and recreation, etc. Applicants with appropriate academic qualifications will attend an interview to assess these experiences and relevant personal characteristics, if travelling distance permits. Graduates from early childhood education diploma courses in Ontario CAATs may apply for admission to the third year. Admission guidelines and details appear in the Ryerson Part-Time Degree Studies calendar.

• Electrical Engineering – Degree

Four years full-time study leading to a Bachelor of Technology(Electrical Engineering). Students may apply to graduate with a diploma in electrical engineering technology after successful completion of the first three years of the program.

Admission requirements
OSSD with six OACs, including algebra and geometry, calculus, physics, and chemistry, 60% or higher, and Grade 12 advanced English, 60% or higher. Preference will be given to those with the highest overall average in the above subjects. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, Candidates may be required to present averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects.

• Environmental Health – Degree

Four years leading to a Bachelor of Applied Arts (Environmental Health). Students may apply to graduate with a diploma in environmental health and may also pursue certification as public health inspectors (C.P.H.I.(C.)), following successful completion of third year.

Admission requirements
OSSD with six OACs including English (60% or higher), and Grade 11 or higher advanced chemistry (60% or higher). Grade 11 or higher biology is strongly recommended. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. Candidates who are 21 years of age and wish to be considered as mature students should refer to the mature student policy.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English.

• Fashion – Degree
Four years leading to a Bachelor of Applied Arts (Fashion). Students may apply to graduate with a diploma in fashion after successful completion of the first three years of the program.

Admission requirements
OSSD with six OACs, including English and mathematics (one of calculus, algebra and geometry, or finite mathematics), with final results of 60% or higher. The minimum average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. Interview/portfolio as noted below and academic performance will be used in the admissions process. Applicants must state their intended option at the time of application, i.e., fashion design or fashion merchandising. THe OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. English/*anglais* OAC 1 is the preferred OAC English.

Although art is not treated as an academic prerequisite for entry into the fashion program, it is strongly recommended that if art courses (e.g., life and/or mechanical drawing and art history) are offered in the candidate's secondary school curriculum, they should be pursued.

Applicants will be required, when possible, to appear for an interview with the School of Fashion, at which time their aptitude for and interests in a career in fashion design and/or merchandising will be assessed. Students will be admitted into either the fashion design or the fashion merchandising option in the first year. Students may not change their option without the approval of the School of Fashion.

At the admission interview, applicants should present a portfolio of 10-12 items that provide evidence of versatility and creative awareness. This may include drawings, design projects, and garments. Leadership qualities and organizational skills can be expressed through slides or photographs of projects carried out at school or in the community, and by letters of reference from employers of those applicants with previous work experience.

• Food, Nutrition, Consumer and Family Studies – Degree
Four years leading to a Bachelor of Applied Arts (Food, Nutrition, Consumer and Family Studies).

Admission requirements
OSSD with six OACs, including English (final grade of 60% or higher) and chemistry. Candidates will also be selected on the basis of their overall OAC average (six OACs or equivalent). Preference will be given to applicants with a minimum of 60% in OAC chemistry. It is recommended that students who plan to specialize in foods and nutrition should include in their studies mathematics (Grade 12 advanced) and OAC biology. Students are encouraged to include an OAC mathematics or equivalent, an OAC social science, and a senior-level family studies course in their secondary school studies. Candidates intending to pursue the family studies specialization may be admitted to the program without OAC chemistry or its equivalent if they receive thye approval of the school director. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum.

THe OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English. Those interested in a teaching career in family studies should consult their guidance office concerning additional OAC/Grade 13 requirements for a second teaching subject.

• Graphic Communications Management – Degree
Four years leading to a Bachelor of Technology (Graphic Communications Management).

Admission requirements
OSSD with six OACs, including English. Grade 11 or higher advanced chemistry and Grade 12 advanced mathematics with a minimum of 60% in each are also required. It is recommended that applicants include chemistry in their OAC program. An interview with a faculty member may be required.The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. Effective September 1992, Grade 11 or higher advanced physics with a final result of at least 60% will be required.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English.

• Hospitality and Tourism Management – Degree
Four years leading to a Bachelor of Applied Arts (Hospitality and Tourism Management) plus the equivalent of one academic year of acceptable cumulative work experience. Students may apply to graduate with a diploma after successful completion of the first three years of the program.

Admission requirements
OSSD with six OACs, including English (60% minimum), and mathematics (60% minimum; one of finite mathematics, algebra and geometry, or calculus; one of the latter two is preferred). Students are asked to submit directly to Ryerson's Office of Admissions/Liaison a résumé (two copies) and may be asked to appear for an interview. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above. OAC English/*anglais* 1 is the preferred OAC English.

• Industrial Engineering – Degree
Four years leading to a Bachelor of Technology (Industrial Engineering). Students may apply to graduate with a diploma in Industrial Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSD with six OACs, including English, algebra and geometry, calculus, physics, and chemistry. Applicants lacking one of these OAC prerequisites may be considered on an individual basis. Minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates presenting averages above the minimum.

THe OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above. English/*anglais* OAC 1 is the preferred OAC English.

• Interior Design – Degree
Four years leading to a Bachelor of Applied Arts (Interior Design). Accredited by the Foundation for Interior Design Education Research (FIDER).

Admission requirements
OSSD with six OACs, including a minimum of 60% in English and mathematics (one of calculus, algebra and geometry, or finite mathematics), and one of the following: history, art history, geography, economics, sociology, or family studies. Preference may be given to students who have included history or art history in their OACs. An interview and portfolio will be required and will be used with the applicant's academic performance in the admissions process. Applicants required to travel more than 800 km for the interview should contact

the School of Interior Design for other arrangements. Students should select physics (Grade 11 or higher) and the art option in Grades 11 and 12 and at the OAC level, if available. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates with averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English.

Applicants will be assessed on their aptitudes and interests for a career in interior design and will be required to appear for an interview, bringing with them a portfolio containing 12 to 15 items showing evidence of two-and three-dimensional creative ability. The student must have an aptitude for drawing.

• Journalism – Degree
Three years leading to a Bachelor of Applied Arts (Journalism).

Admission requirements
OSSD with six OACs, including OAC English 1. Candidates will be screened on the basis of their overall OAC average (six OACs or equivalent). Preference will be given to candidates who have obtained a minimum overall of 70% (six OACs or equivalent) with a grade of 70% or higher in OAC English 1. A minimum keyboarding skill of 30 wpm is required. Applicants are required to write tests on current events and spelling, and an autobiographical essay. Applicants may be selected for a personal assessment except as noted below. The minimum overall average for Ryerson admission is 60% in OACs. Subject to competition, candidates are usually required to present averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 will be the acceptable OAC English. Applicants who live more than 500 km from Toronto and therefore find it difficult to attend the assessment test may submit a 500-word essay (two copies) outlining the qualities and experience they possess that enable them to pursue a journalism career. The School of Journalism intends to implement a four-year integrated program in September 1991.

Note: The Ryerson School of Journalism offers a two-year program for students who hold bachelor's degrees from accredited English-language universities. For details contact the Office of Admissions/Liaison.

• Landscape Architectural Technology – Diploma
Three years leading to a Diploma in Landscape Architectural Technology.

Admission requirements
OSSD with six OACs, including English; one of chemistry, biology, or geography; and Grade 12 advanced level mathematics; with a minimum of 60% in each required course. Qualified applicants are required to submit a written statement of their aptitudes and interests with samples of any creative pursuits and may be asked to an interview if travelling distance permits. It is suggested that mature applicants who have not studied mathematics for several years take a refresher course in Grade 12 advanced level mathematics. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates with averages above the minimum. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English.

• Mechanical Engineering – Degree
Four years leading to a Bachelor of Technology (Mechanical Engineering). Students may apply to graduate with a diploma in mechanical engineering technology after successfully completing the first three years of the program.

Admission requirements
OSSD with six OACs, including English, algebra and geometry, calculus, physics, and chemistry. Applicants lacking one of the above OAC prerequisites may be considered on an individual basis. Minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates with averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above. OAC English/*anglais* 1 is the preferred OAC English.

• Nursing – Degree
Four years leading to a Bachelor of Applied Arts (Nursing). Offered on a full-time basis only.

Admission requirements
OSSD with six OACs, including English and chemistry, and one of biology or physics. An average of 60% or higher is required in these three subjects. Mathematics (Grade 11 or higher) advanced level, 60% or higher is also required. Mature student applicants must have OACs (or equivalent) in English, chemistry, and one of biology or physics with an average of 60% or higher in these three subjects. Advanced level mathematics (Grade 11 or higher), at least 60%, is also required. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred OAC English. Students must submit information pertaining to their state of health and immunization prior to registering. Students are required to obtain an Ontario Heart and Stroke Foundation of Ontario basic cardiac life support certificate prior to registration and are responsible for maintaining this certification throughout the program.

The Ryerson School of Nursing also offers a two-year degree program, full- or part-time, for registered nurses with a diploma in nursing. Admission requirements: current registration by the College of Nurses or eligibility for registration in Ontario; graduation from a diploma program in nursing with acceptable academic performance; and evidence of recent nursing practice experience from those not applying immediately following completion of a diploma program.

Candidates must also submit:

1. Officially certified transcripts from all nursing and other postsecondary level studies, indicating specific courses and grades.
2. Course outlines and descriptions to validate acceptable prerequisites of one full year of psychology, sociology, and liberal studies (e.g., English, history, philosophy). Graduates of Ryerson's diploma program are not required to do this.
3. A detailed résumé of previous work and academic experience (including continuing education) and professional activities.
4. A letter outlining educational goals and indicating the choice of clinical focus within the program (adult, child, and family or mental health nursing) and how that clinical choice relates to the applicant.
5. Photocopy of current Ontario Certificate of Competence or proof of eligibility for the same.

Certificate in Critical Care Nursing
Admission requirements: minimum of one year of medical/surgical nursing experience within the past two years, and College of Nurses certificate of competence. Priority is given to students from participating hospitals.

• Photographic Arts – Degree
Four years leading to a Bachelor of Applied Arts (Photographic Arts).

Admission requirements
OSSD with six OACs, including English, minimum 60%. Aptitudes and interests of applicants will be carefully assessed. Applicants may be required to appear for an interview where travelling distance permits and make available samples of work appropriate to the option they intend to enter. Applicants should be prepared to demonstrate their proficiency in communications skills and must state their intended option at the time of application, *i.e.*, film studies option (PHAF), media arts option (PHAM), or still photography studies option (PHAS). The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The admissions interview, portfolio, and academic performance will be used in the admissions process.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. English/*anglais* OAC 1 is the preferred OAC English. Graduates of university programs will be considered but will be required to take the full four-year program. This program cannot be taken on a part-time, special, or auditor basis.

• Public Administration – Certificate, Advanced Certificate, and Bachelor of Applied Arts (Public Administration) Degree

Three levels of study (offered on a part-time basis through various teaching modes). Students may apply to graduate with a certificate after the completion of level 1 and an advanced certificate after the completion of level 2. Level 3 leads to a Bachelor of Applied Arts (Public Administration) degree.

Admission requirements

An OSSD. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. Students who do not possess the minimum admission requirements may be eligible for admission under Ryerson's mature student guidelines. These apply to individuals who:

(a) are 21 years of age by December 31 of the year in which they will begin studies.

(b) have been away from formal education for at least two years.

(c) are Canadian citizens or landed immigrants or are sponsored by a Canadian government agency.

(d) can present evidence of ability to cope with the program.

• Radio and Television Arts – Degree

Three years leading to a Bachelor of Applied Arts (Radio and Television Arts).

Admission requirements

OSSD with six OACs, including OAC English 1 (minimum of 70%). Preference will be given to applicants with a 70% or higher average in six OACs. Applicants are required to submit a typewritten statement as noted below. An interview may be part of the admissions process. The minimum Ryerson overall average for admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The typewritten statement and academic performance will be used in the admissions process.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects.

Applicants are required to submit directly to Ryerson's Admissions/Liaison Office two copies of a 750-word typewritten statement. The first 500 words should explain the reasons for choosing a career in radio and/or television. This statement should outline interests and experiences (academic or extracurricular) that demonstrate a capacity to succeed in the communications field. Adjudicators are interested in activities that indicate leadership abilities, self-motivation, an interest in society, and actual work experience in the field. The final 250 words should provide evidence that the applicant has investigated the nature of the Canadian communications industry. This section should include a bibliography of books and magazine and newspaper articles that indicate the care taken in investigating this career. Graduates of university programs will be considered, but will be required to take the full three-year program. Students wishing to study on a part-time, special, or auditor basis cannot be admitted into this program.

• Social Work – Degree

Four years leading to a Bachelor of Applied Arts (Social Work). Offered on a full- or part-time study basis. Students may apply to graduate with a diploma in social work after successfully completing the first three years of the programs, provided they meet graduation requirements. The four-year degree program is accredited by the Canadian Association of Schools of Social Work.

Admission requirements

OSSD with six OACs, including English (minimum of 60%). Overall academic performance/average in six OACs including English will determine who participates in the admission selection test. Due to the nature of this program, it is essential that applicants be at least 18 years of age as of June 1 of the year in which they wish to begin study. University and college applicants will be selected on the basis of their secondary school and university or college performance and the admission selection test. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. English/*anglais* OAC 1 is the preferred OAC English. Students will be required to write an admission test on campus (or at another location if applicant lives in Northern Ontario or out of province). The admission test is designed to elicit applicants' interests and aptitudes for a career in social work.

Applicants who do not meet these requirements and who are at least 21 years old may apply as mature students; refer to the mature student policy in Ryerson's day school calendar.

• Survey Engineering – Degree

Four years leading to a Bachelor of Technology (Survey Engineering). Students are also required to accumulate the equivalent of one year of work experience, through summer and/or full-time work, in surveying or related fields (can be completed before, during, or after academic studies). Students may apply to graduate with a diploma in survey engineering technology after successfully completing the first three years of the program.

Admission requirements

OSSD with six OACs, including physics, algebra and geometry, and calculus. Grade 12 advanced English with a final result of 60% or higher is also required. Applicants lacking one of the above OAC prerequisites may be considered on an individual basis. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, preference may be given to candidates with averages above the minimum.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects as noted above.

• Theatre (Dance, Technical/Production, Acting) – Diploma

Acting – three years; Dance – three years; Technical/Production – three years.

Admission requirements

OSSD with six OACs, including at least 60% in an OAC English, is required for admission to the theatre acting program. The minimum overall average for Ryerson admission is 60% in six OACs. Subject to competition, applicants may be required to present averages above the minimum. The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the preferred English. An OSSD is required for admission to the theatre dance and technical/production programs. All theatre programs require that candidates be at least 17 years of age, except for the dance program, where the minimum age is 16. Female dance applicants must offer proof of satisfactory ballet training – a minimum of five years training (*i.e.*, elementary RAD standard or its equivalent). Male applicants who have not had any classical training must demonstrate a degree of physical fitness ability.

All successful applicants must submit a medical certificate certifying their fitness for all physical activities. Both personal and theatrical references (if possible) are required. Applicants will be expected to appear for an entrance audition and/or interview, for which there is a fee of $20. Applicants residing far from Toronto may, upon request, submit a videotape as a preliminary audition. Full information regarding auditions and interviews will be forwarded to applicants upon receipt of their applications.

• Urban and Regional Planning – Degree

Four years leading to a Bachelor of Applied Arts (Urban and Regional Planning). Accredited by the Canadian Institute of Planners and the Ontario Professional Planners Institute.

Admission requirements

OSSD with six OACs. Students are advised to select courses from the following OACs: English, modern languages, economics, family studies, mathematics, and geography.

Qualified applicants will be interviewed where travelling distance permits. Applicants must demonstrate a genuine interest in urban and regional issues. The minimum Ryerson overall average for admission is 60% in six OACs. Subject to competition, candidates may be required to present averages above the minimum. The interview and academic standing will be used in the admission process.

The OSSD/OACs may be substituted for/combined with OSSHGD/Grade 13 subjects. OAC English/*anglais* 1 is the recommended OAC English.

• Continuing Education

Continuing Education at Ryerson gives part-time adult learners a wide variety of program options geared primarily to their career-oriented needs. Credit and non-credit courses spanning over 450 subject areas are offered each year. Many of these courses can be applied towards one of Continuing Education's certificate programs, and many may be credited towards Ryerson day school diploma and degree programs. Depending on their interests, students may choose from credit and professional developmentcourses and seminars, courses leading to a professional certification, more than 45 certificate programs, and part-time degree studies. Studies are offered in applied arts, arts, business, community services, and technology. Special programs and courses include wide-ranging selections such as in-house and off-campus programs, seniors' studies, and Summer at Ryerson.

Academic advisers are available at specific times during registration to assist part-time adult learners in selecting appropriate courses.

Although many courses require an academic background of Grade 12 or its equivalent, many students are granted admission on the basis of their experience in business or industry.

Contact the Continuing Education Division, Ryerson Polytechnical Institute, 350 Victoria Street, Toronto, Ontario M5B 2K3, or telephone the Information Centre at (416) 979-5036.

Open College, the educational service of radio station CJRT-FM 91.1, provides a unique opportunity for people within a 160-kilometre radius of Toronto to take degree credit courses at home by listening to the radio or cassette tapes. No educational prerequisites are required to participate in this program. For further information, contact Open College, 297 Victoria Street, Toronto, Ontario M5B 1W1, telephone (416) 595-0485.

Financial Assistance

Students in financial need may apply for assistance from a variety of sources. In addition to government assistance in the form of loans and grants to full- and part-time students, institutional bursaries are available to students registered in diploma or degree programs.

For further information about government assistance, see the introductory section on financial assistance and check with Ryerson's Financial Aid and Awards Office. The financial aid and awards officer will also have details on bursaries and scholarships offered by Ryerson.

At Ryerson, scholarships are awarded on the basis of academic excellence. The awards are generally granted automatically to the recipients for their performance during the previous academic year.

Bursaries are awarded to students with satisfactory academic performance and a demonstrated financial need. To be eligible, a student must be a daytime student at Ryerson, have achieved and maintained satisfactory academic standing, and demonstrated real financial need.

Residence Accommodation

O'Keefe House

Ryerson has one residence (O'Keefe House), which accommodates 36 men. There are, however, several other residences located within easy walking distance of Ryerson. A 556-bed co-ed residence should be completed by fall 1991. Further information on housing is available from Ryerson's housing registry.

Neill-Wycik College

Neill-Wycik is a 22-storey, co-educational, co-operative residence owned and operated by the student residents. Located one block from the main Ryerson campus, the residence provides accommodation for approximately 700 students.

Housing Registry

The Ryerson housing registry lists a variety of off-campus accommodations, along with rates, addresses, and telephone numbers. Most of these listings are posted between mid-July and September, when a variety of support services are available at Ryerson to make the search easier. A variety of publications provide helpful advice on looking for accommodations or roommates. Further information and cost guidelines are available by telephoning (416) 979-5043.

How to Apply to Ryerson

If you are planning to apply to Ryerson, you must do so through the Ontario Universities' Application Centre unless you are a current or former Ryerson student (including continuing education students), seeking special student status, or applying to a part-time degree/diploma program. Applicants who fall into one of these categories apply directly to Ryerson on a Ryerson application form.

Ontario high school students currently in their senior year use the OUAC 101 form available in the fall from their guidance office. International students (overseas applicants) use the OUAC 105F form available from the Ryerson Office of Admissions/Liaison, the registrar's office of any Ontario university, or from the OUAC. Application procedures are detailed on the form. The address for the Ontario Universities' Appli tion Centre (OUAC) is Box 1328, Guelph, Ontario, Canada N1H 7P4.

Tuition Fees 1989-90

Fees for the 1991-92 year were not available at the time of writing. For current information, contact the Ryerson Student Fees Department at (416) 979-5015.

The total fee for full-time students who a Canadian citizens or landed immigrants we $1 516 for the fall and winter terms, and $758 for the spring term. The total fee for full-time international students was $5 722 for the fall and winter terms, and $2 861 fo the spring term.

Students whose total fees for the academic year (fall and winter terms) amount to more than $1 043.30 (international students $3 566.90) may pay their fees i two instalments but will incur a 1.5% interes charge per month on the outstanding balance. Payment of the balance due is required by the day before the first day of classes in January.

For fee schedules for part-time students, special departmental charges, and cost of supplies for individual programs, please co sult the Ryerson day school calendar.

Further Information

For further information write to

Information Centre
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3
Telephone (416) 979-5036

Inquiries regarding scholarships, bursaries, student awards, and housing should be addressed to

Student Services Department
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3

University of Toronto

Toronto

President: Mr. Robert Prichard

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	31 766	5 977
Part-time	12 155	3 752

Faculties, Schools, Centres, and Institutes

Faculty of Applied Science and Engineering
School of Architecture and Landscape Architecture
Faculty of Arts and Science
Faculty of Dentistry
Faculty of Education
Faculty of Forestry
Faculty of Law
Faculty of Library and Information Science
Faculty of Management
Faculty of Medicine
Faculty of Music
Faculty of Nursing
Faculty of Pharmacy
Faculty of Social Work
Royal Conservatory of Music
School of Graduate Studies
School of Physical and Health Education
School of Continuing Studies
Banting Institute
Banting and Best Diabetes Centre
Best Institute
Centre for Building Science
Centre for Comparative Literature
Centre of Criminology
Centre for Industrial Relations
Centre for International Studies
Centre for the Study of Materials
Centre for Medieval Studies
Centre for Nuclear Engineering
Centre for Reformation and Renaissance Studies
Centre for Religious Studies
Centre for Research in Librarianship
Centre for Russian and East European Studies
Centre for South Asian Studies
Centre for Urban and Community Studies
Computer Systems Research Institute
Engineering and Management Centre
Graduate Centre for the Study of Drama
Information Technology Research Centre
Institute for Aerospace Studies
Institute of Biomedical Engineering
Institute of Child Study
Institute for Environmental Studies
Institute for History and Philosophy of Science and Technology
Institute for Hydrogen and Electrochemical Studies
Institute of Immunology
Institute of Medical Science
Institute for Policy Analysis
Institute for Space and Terrestrial Science
Joint Centre on Modern East Asia
Manufacturing Research Corporation of Ontario
Ontario Centre for Materials Research
Ontario Institute for Studies in Education
Ontario Laser and Lightwave Research Centre
Pontifical Institute for Medieval Studies

Arts and Science Colleges

Erindale Campus
Innis College
New College
St. Michael's College
Scarborough Campus
Trinity College
University College
Victoria College
Woodsworth College

General Admission Requirements

Entrance to the first year of the undergraduate courses is offered, depending upon the number of places available, to candidates from Ontario secondary schools who demonstrate good standing based upon:
a) completion of six appropriate OACs.
b) eligibility to receive the OSSD.
c) a complete academic report for courses taken in the senior division of secondary school.

Secondary school applicants receive a Student Profile to complete and return. This questionnaire enables students to supplement their academic results so that the university may make a better assessment of their academic and personal strengths.

Students should carefully consider what aspects of their projected university work will entail prerequisite studies. Most faculties regard certain OACs as necessary preparation; these are listed under the entry for each division.

A full description of these admission requirements is contained in the admission handbook. Applicants to programs in business, education, library science, social work, and child study must hold a bachelor's degree.

Any change in entrance requirements for September 1991 will be communicated to high schools in February or March 1990.

Bachelor of Arts, Bachelor of Science, Bachelor of Commerce

Admission requirements:

Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in mathematics or a language other than English; and four additional credits; however, no more than two OACs in any one subject will be accepted.

During the transition from OSSHGD to the OSSD, the university will accept a combination of Grade 13 and OAC credits.

Students are advised to complete the secondary school program at a rate consistent with their interests and abilities. The length of time taken to complete the first two requirements above will not be considered in the selection process.

The University of Toronto is not able to admit all qualified candidates and, therefore, the completion of the OSSD and six OACs will not guarantee admission. The university will continue to select students by taking into consideration a wide range of criteria including OAC and/or Grade 13 marks, distribution of subjects taken, performance in subjects relevant to the academic program selected, results in senior division (Grades 11 and 12) prerequisite courses, and supplementary information obtained through the Student Profile program.

Students who are not eligible for an OSSD may appeal to receive consideration for admission. The appeal must provide evidence that:
a) a minimum of 30 credits, at least 14 of these in the senior division, have been completed, and
b) a minimum of six acceptable OACs have been completed, and
c) the academic program presented has the support and approval of the secondary school principal.

Note: Applicants whose first language is not English must fulfil the following requirements:

Candidates whose first language is not English and who have studied in an English-language school system* for two years or less will be required to present an acceptable score on one of the following tests of English facility: Test of English as a Foreign Language (TOEFL) – minimum score of 580; or Michigan English Language Assessment Battery (MELAB) – minimum score of 90; or University of Toronto Certificate of Proficiency in English Test (C.O.P.E. Test) – minimum score of 6, with no zero in any skill area and a score of no less than 2 in writing.

Regarding OAC English 1: The faculties of Arts and Science, and Applied Science and Engineering will allow candidates whose first language is not English and who have studied in an English-language school system* for two years or less to be exempted from presenting OAC English 1. All other faculties that have OAC English 1 as a prerequisite require candidates to present OAC English 1 in addition to an acceptable test of English facility.

It is the responsibility of the applicant to ensure that he or she is taking one of the acceptable tests. We strongly urge applicants to write one of the tests as early as possible because test results take four to six weeks to reach our office.

Bachelor of Arts, Bachelor of Science

Three years.

Fifteen courses over the three-year period. Students are required to complete a major program consisting of at least five and not more than seven courses in one discipline or study area. In addition, three other courses of the 15 must be in disciplines other than those of the major program. Disciplines with major programs are listed under specific subject areas.

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*An English-language school system must be located in a country where the first (native) language is English.

Bachelor of Arts, Bachelor of Science
Four years.
Twenty courses over the four-year period. Students are required to complete *one* of the following:
1) A specialist program consisting of at least nine and not more than 13 courses in one discipline or study area.
2) A combined specialist program consisting of at least 14 and not more than 16 courses in two or more disciplines or study areas.
3) Two major programs, each of which consists of at least five and not more than seven courses in one discipline or study area.

In addition, three courses of the 20 must be in disciplines other than those of the specialist or combined specialist disciplines. Disciplines and study areas with specialist and/or combined specialist programs are listed under specific subject areas.

Bachelor of Arts, Bachelor of Science
Co-op programs.

Four undergraduate arts and science co-operative programs, combining university study with work terms in business and industry, are available at the Scarborough Campus. The programs, which take five years to complete, are administration, arts administration, computer science and physics, and international development studies. Degree earned: B.A. or B.Sc. with specialist certification.

Limited Enrolment

Enrolment in most programs in professional divisions and in some arts and science programs is limited. Most of these programs have special entrance requirements in addition to OAC requirements *(e.g.,* entrance audition, art portfolio, special questionnaires). The university cannot guarantee acceptance of all qualified applicants to limited enrolment programs; however, applicants will be considered for alternate program and faculty choices where possible.

A minimum of 70% in six appropriate OACs is required for general admission consideration to the university. However, many divisions require averages considerably higher than the minimum. Some divisions, in their selection process, make use of nonacademic criteria *(i.e.,* architecture and landscape architecture, music, physical and health education) and, therefore, occasionally may offer admission to a student who has less than 70%.

Application for Admission

Candidates currently in their graduating year in an Ontario secondary school should apply through their high school using the general application form. Applications received from such candidates by the date announced on the application form will be given early consideration. All other candidates should write to the Office of Admissions, giving details of their previous academic work.

University of Toronto calendars are sent to all Ontario secondary schools and Canadian universities. An admission handbook is available upon request from

Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3

[redacted]

Arts and Science constitutes the largest single academic unit at the University of Toronto. The wealth of programs offered covers a broad range of traditional and new approaches to the many fields within Arts and Science.

Every Arts and Science student belongs to one of the nine colleges at the University of Toronto. Colleges on the (downtown) St. George Campus are: Innis, New, St. Michael's, Trinity, University, Victoria, and Woodsworth. Two colleges are located on their own campuses just west and east of Toronto; Erindale in Mississauga, and Scarborough in the city of Scarborough.

The wide-ranging Arts and Science education offered at the university is a valuable asset in any career. It teaches students how to think and how to learn. It enhances the ability to communicate, to analyse and solve problems, and eases adaptation to today's fast-changing world.

Programs

The University of Toronto offers over 300 undergraduate programs – everything from actuarial science to zoology – in Arts and Science. These programs of study lead to either a Bachelor of Arts (B.A.), Bachelor of Science(B.Sc.), or Bachelor of Commerce (B.Com.) degree. (Scarborough offers commerce programs leading to a B.A. degree.)

A three-year B.A. or B.Sc. requires successful completion of 15 courses including a major program (five to nine courses in a specific academic area). A four-year B.A. or B.Sc. requires successful completion of 20 courses including a specialist program (nine to sixteen courses in one academic area) or two major programs. The B.Com. degree program requires completion of 23 courses over a four-year period.

Arts and Science is divided into several areas of study: commerce and finance, humanities, life sciences (including the basic medical sciences), mathematical and physical sciences, and social sciences.

Each of these divisions is made up of several departments that offer a variety of courses, some introductory in content and others more advanced. To give breadth and depth to a university education, courses are organized in programs. Some programs combine two subjects such as mathematics and physics or modern languages and literature. Some interdisciplinary programs, organized around a common theme or period, are offered at specific colleges. These are open to students of any college.

Enrolment in programs of study usually takes place at the beginning of the second year. On the St. George and Erindale campuses, programs with limited enrolment are: biochemistry, cognitive science and artificial intelligence, commerce, computer science, criminology, drama, economics, exceptionality in human learning, humanities and psychoanalytic thought, immunology, international relations, microbiology, molecular genetics and molecular biology, peace and conflict studies, pharmacology, political science, and psychology. On the Scarborough Campus, programs with limited enrolment are: commerce, computer science, economics, and neuroscience; and cooperative programs in: administration, arts administration, computer science and physics, and international development studies. Admission to limited-enrolment programs normally takes place at the end of first year or the completion of a minimum of four courses. Acceptance usually depends upon overall performance in first year, including any required courses. The co-op programs are slightly different in their procedure.

All Arts and Science courses are available to all students regardless of college affiliation. Students must take the majority of their courses on their own campus. Permission must be obtained to take courses on another campus.

Basic Medical Sciences

• Bachelor of Science

Three/four years
Available in: biochemistry, biochemistry and chemistry, human biology, immunology, microbiology, molecular genetics and molecular biology, nutritional sciences, pharmacology, physiology, toxicology.

Admission requirements
See *General Admissions Requirements,* "Bachelor of Arts, Bachelor of Science".

Commerce and Finance

• Bachelor of Commerce

Four years
Available in: commerce and finance (not available on Scarborough campus).

Admission Requirements
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science, Bachelor of Commerce".

Humanities

• Bachelor of Arts

Three/four years
Available in: American studies, ancient Near East studies, ancient Syria-Palestine, art and art history, Assyriology, Canadian literature and language, Celtic studies, Chinese language and literature, Chinese studies, Christian philosophy, Christianity and culture, cinema studies, classical civilization, classics, Czech and Slovak studies, drama, East Asian studies, English, Estonian, fine art (history of art, studio art), French language and linguistics, French language and literature, French-language literature and translation, German language and literature, German-language literature and translation, Greek, Greek and Roman history, Greek studies (ancient or modern), Hellenistic Near Eastern studies, history, history and philosophy of science, history of ideas, humanities, humanities and psychoanalytic thought, Hungarian studies, Islamic studies and religious studies, Italian, Japanese language and literature, Japanese studies, Jewish studies, Korean studies, Latin, Latin American studies, linguistics, literary studies, logic, mediaeval and modern Hebrew, mediaeval studies, Middle East and Islamic studies, modern Hebrew language and literature, modern languages and literatures, music, myth and religion, Near Eastern studies and religious studies, philosophy, philosophy applied to life sciences, Polish language and literature, Portuguese, religious studies, Renaissance studies, Roman studies, Russian and East European studies, Russian language and literature, semiotics, Slavic languages, Slavic languages and literatures, South Asian studies, Spanish, Ukrainian language and literature, Victorian studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

Life Sciences

• Bachelor of Science

Three/four years
Available in: animal behaviour, biology, botany, cognitive science, molecular biology of plants, neurosciences, palaeontology, plant pathology, plant population biology and evolution, psychology, zoology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

Mathematical and Physical Sciences

• Bachelor of Science

Three/four years
Available in: actuarial science, analytical chemistry, applied mathematics, astronomy, astronomy and physics, biogeography, biological chemistry, chemical physics, chemistry, cognitive science and artificial intelligence, computer science, mathematical sciences, mathematical statistics, mathematics, organic chemistry, organometallic chemistry, physics, physical chemistry, photochemistry, theoretical chemistry, statistics, survey science, terrain and environmental earth sciences. Approximately half of the courses in each program are required; the remaining courses are left for the student to choose, subject to breadth requirements. Student-designed programs are also available, subject to departmental approval. Such programs can take advantage of the resources of both undergraduate and graduate departments.

Studies in astronomy cover the full spectrum: observation and theory; optical, radio, and other wavelengths; stars, galaxies, and the universe. The three-year major program can be combined with a program in another discipline; the four-year specialist program includes astronomy and physics and prepares the student for employment or graduate study.

Studies in chemistry afford the student access to a wide range of programs and courses. Students may specialize in chemistry or may combine specific areas of chemistry with other sciences such as biochemistry, geology, materials, mathematics, and physics. The four-year specialist or combined specialist programs are stimulating and challenging. Programs and course areas: chemistry, chemical physics, analytical chemistry, organic chemistry, inorganic chemistry, physical chemistry, theoretical chemistry, biological chemistry, solid state chemistry, chemistry and geology, chemistry and biochemistry, environmental chemistry, organometallic chemistry, catalysis, materials science, and many others.

Computer science is strong in many areas, including theory, operating systems, numerical analysis, artificial intelligence, graphics, languages, networks, databases, systems analysis, and human-computer interaction. An optional professional experience year program allows the student to combine employment and education.

The Department of Geology provides a wide range of courses in subjects related to the earth sciences, such as mineralogy, petrology, economic geology, geochemistry, geophysics, paleontology, and environmental geology. These subjects can be taken as part of the four-year geology specialist program, or in the shorter major or minor programs. Specialist programs, run jointly with physics, chemistry, or zoology departments, are also options. Students may enter any of these programs after a first year of basic science. Geology graduates find employment in mineral or pertroleum exploration and development, government scientific establishments such as geological surveys and environmental control agencies, or go on to engage in graduate work. Many students take field-related summer employment and travel widely in the course of it.

The Department of Mathematics offers a broad range of courses and programs in applied mathematics and mathematics. The four-year specialist (or honours program) is designed to prepare students for graduate work in mathematics, applied science, or science. Students in this undergraduate program are allowed to take graduate courses with the permission of the department. Students completing this program are routinely accepted into the best graduate schools worldwide (usually with financial support). The three- and four-year programs in applied mathematics and mathematical sciences are designed to prepare students for careers in business, teaching, or the civil service.

The Department of Physics offers courses and programs in a wide range of areas of classical and modern physics, including theoretical and experimental high energy physics, nuclear physics, condensed matter physics, laser physics and quantum optics, geophysics, and atmospheric physics. The major programs in physics lead to career possibilities in most areas of physical sciences. The four-year specialist programs in physics and in mathematics and physics prepare the student for a career in physics as well as for graduate studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

Social Sciences

• Bachelor of Arts

Three/four years
Available in: African studies, anthropology (archaeology, linguistic, social/cultural), Canadian studies, commerce, commerce and East Asian studies, commerce and finance, crime and deviance, criminology, development studies, economics, economic history, Egyptology, environmental and resource management, environmental sciences, environmental studies, ethics society and law, exceptionality in human learning, geography, historical and cultural geography, history and philosophy of science, history of science and technology, international relations, labour-management relations, labour studies, mathematical linguistics, medicine morality and the law, Native studies, peace and conflict studies, political science, population and society, science and society, science and technology studies, social anthropology and sociology, sociology, urban and economic geography, urban studies, women's studies.

• Bachelor of Science

Three/four years
Available in: computer science for data management, economics and quantitative methods, environmental and resource management , environmental sciences.

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Principal: Desmond Morton, B.A., M.A., Ph.D., F.R.S.C.

Two hundred and forty-three furnished townhouses provide 813 students with inexpensive university campus accommodation.

General Admission Requirements
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science, Bachelor of Commerce."

Programs Offered
Erindale offers courses leading to three- and four-year Bachelor of Arts or Bachelor of Science degrees and a four-year Bachelor of Commerce degree. Students electing to follow a three-year program will take a major concentration in a discipline or an approved area of study, while those choosing a four-year program will specialize in a discipline or complete two major areas of concentration. Students will also select, at some point in their program, at least one course from each of the academic divisions of humanities, physical and life sciences, and social sciences.

Humanities: classics, drama, English, fine art, French, German, history, Italian, linguistics, philosophy, religious studies, and Spanish. Physical and life sciences: astronomy, biology (botany, microbiology, zoology), chemistry, computer science, geology, mathematics, physics, psychology, statistics, and survey science. Social sciences: anthropology, commerce, economics, geography, political science, and sociology.

Students may choose from a broad range of specialist and major programs, including a number of unique programs sponsored by Erindale. The following listing outlines these special programs.

Art and art history provides initial training for careers in art galleries and museums, for advanced study of the history of art and art conservation, for freelance art careers, and for the teaching of art in Ontario schools. Students earn both a University of Toronto degree and a diploma of art and art history from Sheridan College of Applied Arts and Technology. Please note that applications must be submitted to both the University of Toronto and Sheridan College.

Survey science is the science of measuring and representing geometrical and physical features of the environment. The program at Erindale includes subjects such as land surveying, geodesy, photogrammetry, remote sensing, cartography, real property law, and computer programming.

The four-year specialist program, fully approved by the Association of Ontario Land Surveyors, leads to the B.Sc. degree. Upon graduation, a student may apprentice with a surveyor for two years and qualify for the Ontario Land Surveyor (OLS) designation. Algebra and geometry, calculus, English, and physics are mandatory for entry into survey science.

Exceptionality in human learning is a three-year or four-year program leading to careers in special education, counselling, and advanced study in psychology. Focusing on the gifted and handicapped, students will study primarily psychology and augment their program with electives such as children's literature, philosophy of education, and medicine, morality, and the law. This program is preferred by the university's Faculty of Education.

In addition to art and art history and exceptionality in human learning, programs such as the joint psychology and biology program in animal behaviour and the major program in crime and deviance offer subject emphases not available elsewhere in the university.

Approved Areas of Study
The following interdisciplinary approved areas of study are available at Erindale Campus: Canadian studies, crime and deviance, earth resources, environmental science, exceptionality in human learning, Latin American studies, logic, material culture, Native studies, population and society, and urban studies.

February Admission
Students qualified for admission to the faculty of Arts and Science, especially those intending to graduate in January 1991, are invited to apply to the February admission program offered at the Erindale Campus. Students will be eligible to take a maximum of 2 credits in a 13-week session that runs until May 1991. Appropriate couses have been selected for the program, from English, philosophy, psychology, sociology, commerce, mathematics, and computer science (an introduction to microcomputers).

The program dates have been timed to provide for a smooth transition to summer courses or to allow students to compete for summer employment. With appropriate course selection in the February and summer sessions, qualified students may complete their first-year requirements by August 1991. Admission requirements are the same as for September or summer programs. Some residence spaces and scholarships will be available. Applicants requiring financial assistance should submit their OSAP application by mid-November 1990.

Library
Erindale's undergraduate library holds over 220 000 books, an array of 2 000 current journals and periodicals, and 25 microcomputers for students, and offers an efficient book delivery system that allows students access to the six million volumes in the university's library collection.

Scholarships, Awards, and Financial Aid
Special scholarships are available at the Erindale Campus, in addition to the National Scholarships and the U of T General Admission Scholarships open to all University of Toronto students. Over 40 Erindale awards of $1 000 to $1 500 are available each year. Some, including the Chancellor's Scholarships ($1 500) and the Dean's Scholarships ($1 200), are awarded annually and are renewable for three more years, provided an "A" standing is maintained.

Further Information

Campus visits and general information
Mr. Doug Leeies
Telephone (416) 828-5217
Academic counselling and help with program selection
Dr. Les McCormick or
Ms. Mary Alice Beyer-Gammon
Telephone (416) 828-5244 or 828-5331

Scholarships and financial aid
Mrs. Valerie Rowles
Telephone (416) 828-5234

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Principal: Paul Thompson, M.A., Ph.D.

General Admission Requirements
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science".

Programs Offered
Scarborough offers courses leading to three- and four-year Bachelor of Arts and Bachelor of Science degrees. Commerce students work toward a Bachelor of Arts degree. Students who wish to earn a four-year degree will complete either a specialist program in one discipline or two major programs in different disciplines. Those who wish to earn a three-year degree will follow a major program of study or a college program. Programs are flexible enough that students can also take courses from outside their specialist or major areas of interest.

Humanities – arts, classical studies, drama, English, fine art, French, German, history, humanities, Italian, linguistics, music, philosophy, Spanish. *Life Sciences* – biological sciences, cell and molecular biology, ecology and environmental biology, psychology. *Physical Sciences* – biochemistry, chemical physics, chemistry, computer science, geology, mathematics, physics, statistics. *Social Sciences* – anthropology, commerce, economics, geography, political science, sociology.

Co-operative Programs: The following are the only co-operative programs available at the University of Toronto: administration, arts administration, international development studies, and computer science and physics. Planning for a fifth program, in publishing, is underway. These programs all combine university study with work terms in business, industry, government and the arts, or development projects. Students in the *co-op program in administration* take courses in commerce, economics, history, political science, sociology, psychology, and statistics for an integrated view of administration, both public and private. Four work terms provide practical experience in these areas. *Arts administration* students take a combination of business and public administration courses as well as courses in at least two arts fields: drama, fine art studio, fine art history, or music. Two work terms are spent with museums, theatres, galleries, and other such arts organizations. The *co-op program in international development* integrates courses in political, economic, and social development studies with courses in physical resource management. An eight- to twelve-month work term placement in a Third World country gives students the opportunity to apply what they have learned in their academic program.

The co-op program in computer science and physics combines academic studies during the regular academic year with work terms (usually two) in the summer. It prepares students for permanent employment in areas concerned with research and technology, as well as for graduate studies in computer science. Other unique programs available at the Scarborough campus:

Neurosciences, which encompasses several disciplines: anatomy, physiology, biochemistry, psychology, and pharmacology. Its goal is understanding the behavioural, biological, and biochemical processes in the brain and nervous system.

Terrain and Environmental Earth Sciences (TEES): This multidisciplinary program recognizes the growing concern for our environment. Studies in geology are strongly supported by chemical and other physical sciences.

Interdisciplinary Programs

Programs combining the resources of different disciplines can provide a focus for the study of various themes and topics. Available at Scarborough are: cognitive science, development studies, humanities, neurosciences, women's studies and society, values and medicine.

Resources

The Bladen Library at Scarborough College has over 200 000 books on open shelves, as well as thousands of maps and periodicals. In its media centre are recordings and fine art slides. Individual study desks are located throughout the library. Online access is available to the holdings of other libraries. Other resources include counselling services and a career centre, computer centre, writing lab, science labs, greenhouse, astronomy dome, and language studies centre.

Residences

Campus acommodation is provided for 536 students in furnished, self-contained townhouses near the main college buildings. Each townhouse accommodates four to six students in single and double rooms. Ten spaces are designed for students with special needs.

Off-Campus Housing

There are rooms, apartments, and shared accommodations available in the Scarborough area. Students who wish to rent apartments should start their search early.

Student Awards

Scarborough College offers over 50 entrance awards in addition to the general University of Toronto scholarships. The most prestigious of these is the Plumptre Award, currently valued at $2 000.

Further Information

For further information, or arrangements to visit the Scarborough campus, please write or telephone

Ms. Jackie Kemp
Counselling Services Office
Scarborough Campus
University of Toronto
1265 Military Trail
Scarborough, Ontario M1C 1A4
Telephone (416) 284-3292

For further information about residence, contact

Ms. Penelope Laycock
Manager, Student Residences and Conference Services
Telephone (416) 284-3174

For further information about co-op programs, contact

Office of Co-operative Programs
Telephone (416) 284-3117

Education/Physical Education/Recreation

• Bachelor of Physical and Health Education

The School of Physical and Health Education offers a four-year honours degree program, comprising 20 academic credits and eight activity courses, four practical leadership experiences, and three outdoor camp experiences. The program emphasizes physical activity, health, and their interrelationship. The graduate program in the exercise sciences is offered through the Graduate Department of Community Health.

Admission requirements

Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including one credit in English I/*anglais*; one credit in biology; one credit in mathematics I (calculus preferred); one credit in chemistry or physics; one credit in physical and health education*; and one elective credit. Applicants are required to complete a student profile. *Applicants whose schools lack OACs in physical education may substitute another OAC for this requirement and must indicate on their student profiles that this credit was not offered at their schools.

Engineering and Applied Sciences

• Bachelor of Applied Science

The Faculty of Applied Science and Engineering offers a four-year program leading to a Bachelor of Applied Science degree. Nine programs are available: chemical engineering and applied chemistry, civil engineering, computer engineering, electrical engineering, engineering science, geological and mineral engineering, industrial engineering, mechanical engineering, metallurgical engineering and materials science. The first year is common to all programs except engineering science. Students are required to select one of the above nine programs upon making application.

In the third year, engineering science students elect one of the following options: aerospace, chemical, computer engineering, electrical, geophysics, computer aided manufacturing, nuclear and thermal power, or physics.

In the third year, geological and mineral engineering students elect one of the following options: mineral exploration, mineral engineering, or geotechnical engineering.

In the third year, metallurgical engineering and materials science students elect one of the following options: metallurgical or materials.

The faculty has a two-term system, with the academic year divided into two terms, each lasting approximately 16 weeks. Most courses are one term in duration, with concentration on six subjects at one time.

There is provision for students to elect a slightly higher or lower than normal course load in some terms. Promotional standing is determined at the conclusion of each term.

Each program consists of core courses in relevant areas of science, mathematics, and engineering, plus technical and humanities/social science elective subjects allowing students to specialize in one or more minor fields of interest. The humanities/social science electives provide an opportunity to take courses in the humanities, the social sciences, and other courses related to various aspects of professional practice.

Students may choose a co-operative work-study program, which involves a concentrated 16-month employment period (the professional experience year) between second and third academic years. This program provides engineering experience in a co-operating industry that is closely related to the student's field of specialization.

Fourth-year students who intend subsequently to continue to graduate studies may participate in the co-ordinated bachelor/master's program, which normally permits a reduction in the time required for completion of the master's degree.

Requirements for Admission to the Faculty of Applied Science and Engineering:
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus; one credit in chemistry; one credit in physics; and one elective credit; students are strongly encouraged to select a credit in humanities or social sciences for their elective.

English Facility Requirements for Applied Science and Engineering:
Note to students whose first language is not English: (a) Those who have studied for more than two years in an English-language school system* must present OAC English 1/*anglais*. (b) Those who have studied for only two years or less in an English-language school system* must present proof of English facility but may be exempted from presenting OAC English 1 when they present one of the following: a minimum score of 580 on the Test of English as a Foreign Language (TOEFL); or a minimum score of 90 on the Michigan English Language Assessment Battery (MELAB); or a minimum score of 6 with no zero in any skill area and a score of no less than 2 in writing on the University of Toronto Certificate of Proficiency in English Test (C.O.P.E. Test).

• Bachelor of Architecture

Five years

Admission requirements
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus; and three elective credits†.

All applicants are asked to complete a questionnaire and to present a portfolio of their work. Candidates whose first language is not English may be required to present proof of facility in the English language.

• Bachelor of Landscape Architecture

Five years

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including those prescribed. Applicants must include the following OACs: one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus or finite mathematics; and three elective credits†.

It is strongly recommended that prospective applicants to the program include studies in art, biology, geography, and environmental, social, and natural sciences. All applicants are asked to complete a questionnaire and submit a portfolio of their work. Candidates whose first language is not English may be required to present proof of facility in the English language.

• Bachelor of Science in Forestry

Four years
After two years in the undergraduate forestry program, students are required to elect one of the following options: (1) forest science, or (2) wood products science. The areas of interest in forest science are forest biology (including animal and plant ecology, tree physiology, genetics, forest pathology, and entomology) and forest management (including silviculture, timber harvesting and utilization, remote sensing, forest economics, management planning, and business). In wood products science, the areas of interest are the anatomy and physical and chemical properties of wood, wood processing, and uses for structural and chemical engineering.

A work-study program (professional experience year), which involves a 16-month employment period, is made available to selected students between the second and third years. It provides them with a unique opportunity to apply the results of their first two years of university education and to develop a focus for the remaining two years of academic studies. It may also provide an opening for permanent employment upon graduation.

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including one credit in English I/*anglais*; one credit in chemistry; one credit in calculus; one credit in algebra and geometry or finite mathematics; one credit in biology; and one elective credit. OAC physics is strongly recommended.

Fine and Applied Arts

• Bachelor of Music

Four years
In second-year music, students choose their major field of concentration from one of the following: composition, history and literature, music education, theory.

Academic requirements
Candidates from Ontario secondary schools must present at least five academic credits at the OAC level, not including music or Royal Conservatory of Music certificates. An OAC in English I/*anglais* is required. Candidates whose first language is not English may be required to present proof of facility in the English language. Applicants should contact the Faculty of Music directly, in the fall, to request the faculty's music questionnaire for entrance the following September. Telephone (416) 978-3741.

Musical requirements
a) Major performing medium. All candidates are required to audition. The moderate to advanced level of playing is expected. Applicants may audition on any standard orchestral or band instrument, classical guitar, free bass accordion, historical instruments, piano, organ, or voice. Details of the required standard may be obtained from the admissions officer of the Faculty of Music.
b) Theory. (1) RCMT (or equivalent) certificates: Grade 2 rudiments and Grade 3 harmony, or
(2) an admission-theory placement test, which covers equivalent material.
c) Additional requirement: interview (at the same time as the audition).
d) Keyboard proficiency. Students whose major performance instrument is not piano will find that a Grade VI (RCMT) certificate will assist them in their studies at the faculty. The Faculty of Music *does not,* however, require proof of certification or an examination in keyboard proficiency.

• Bachelor of Music in Performance

Four years from a four-year high school course.

Academic requirements
Students must be eligible for an OSSD and present at least five academic credits at the advanced level, not including Grade 12 or 13 music or RCMT certificates (or equivalent). Music is highly recommended as a subject but will not be counted in the five credits.

Musical requirements
a) Major performing medium. An entrance audition is required of all applicants. Only those showing special talent will be admitted to the program. Candidates may audition on any standard orchestral or band instrument, historical instruments, piano, organ, classical guitar, free bass accordion, or voice. Details of the required standard may be obtained from the Admissions Officer of the Faculty of Music.
b) Theory. Same as for Bachelor of Music degree program (see above).
c) Additional requirement: interview (at the same time as the audition).
d) Keyboard proficiency: see Bachelor of Music degree program above.

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*An English-language school system must be located in a country where the first (native) language is English.

†Architecture and landscape architecture applicants must select their three OAC electives according to the following guidelines: two humanities credits in addition to English are acceptable; a maximum of two social science credits is acceptable; no additional mathematics credit is acceptable.

• Artist and Licentiate Diploma Programs (Faculty of Music)

Three years

Artist diploma: A course to train performers for professional careers.
Licentiate Diploma: A course that combines practical training with instruction in pedagogy to prepare students for careers as private piano teachers.

Academic requirements
Same as for the Bachelor of Music in performance.

Musical requirements
a) Major performing medium. Candidates are required to audition. Superior performing ability is expected. For the Artist Diploma program, candidates may audition on any standard orchestral or band instrument, recorder, free bass accordion, piano, harpsichord, classical guitar, or voice. The Licentiate Diploma program is available only in piano.
b) Theory. Same as for Bachelor of Music degree program (see above).
c) Additional requirement: interview (at the same time as the audition).

• Bachelor of Science in Art as Applied to Medicine (Medical Illustration)

Three years
An advanced course offered to qualified art/science students.

Admission requirements
Candidates must present a complete six OACs, including English and biology. OACs in chemistry and art are strongly recommended. Applicants should also have a minimum of two and a half years of formal studio courses in art; this training should follow high school and should emphasize illustration rather than fine art.

Address inquiries to
Director
Department of Art as Applied to Medicine
University of Toronto
256 McCaul Street
Room 304
Toronto, Ontario M5T 1W5

Health Professions and Medical Sciences

• Bachelor of Science in Nursing

Four years

Admission requirements
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in chemistry. OACs in biology and mathematics are recommended.

Candidates who are graduates of diploma nursing programs are required to have completed OAC/Grade 13 chemistry or its equivalent and to present an official transcript of their diploma nursing program. After being admitted, graduates of diploma nursing programs are automatically granted credit for Year I nursing courses NUR100Y, NUR102Y, and NUR103B, and are eligible for advanced standing in NUR200Y, NUR202Y, and NUR205H, on the basis of examinations developed for this purpose. Graduates of diploma nursing programs will also have the opportunity to write challenge examinations in anatomy, chemistry/biochemistry, nutrition, pathology, and physiology. Results obtained in the challenge examinations will determine the length of the program and the number of courses to be completed.

A candidate of mature age (21 years of age or older on October 1 of the winter session, or July 15 of the summer session), who has lived in Ontario for a minimum of one year and is normally a resident of Ontario, may request special consideration for admission to the faculty if high standing has been obtained in pre-university courses in chemistry and English, which are offered through Woodsworth College (or equivalent courses), and standing in such other tests as may be required.

Address enquiries to the Admissions Officer, Faculty of Nursing, University of Toronto, 50 St. George Street, Toronto, Ontario M5S 1A1.

• Bachelor of Science in Pharmacy

Four years

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus; one credit in chemistry; one credit in physics; and one elective credit.

In addition, all applicants must write the Pharmacy College Admission Test (PCAT), which must be written in February or April. Information on the test is available in high school guidance offices and from
Faculty of Pharmacy
University of Toronto
19 Russell Street
Toronto, Ontario M5S 1A1

Program is not open to international students.

• Bachelor of Science (Occupational Therapy)
Bachelor of Science (Physical Therapy)

Four years

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including:

(Occupational therapy applicants): one credit in English I/*anglais*; one credit in biology; one credit in algebra and geometry or calculus or finite mathematics or relations and functions; and three elective credits.

(Physical therapy applicants): one credit in English I/*anglais*; one credit in biology; one credit in chemistry; one credit in physics; one credit in algebra and geometry or calculus or finite mathematics; and one elective credit.

Address inquiries to
Office of Admissions
University of Toronto
315 Bloor St. West
Toronto, Ontario M5S 1A3

• Doctor of Dental Surgery

Four years following completion of a minimum of two years' full-time university study at a level beyond secondary school graduation. These years must include courses in biology, chemistry, physics, and organic chemistry (all with lab components) that are acceptable to the faculty. The Canadian Dental Association Council on accreditation requires all applicants to Canadian faculties of dentistry to write the Dental Aptitude Test. The results of this test will not be taken into consideration in the admission process at the University of Toronto.

Inquiries should be addressed to
Admission Office
Faculty of Dentistry
University of Toronto
124 Edward Street
Toronto, Ontario M5G 1G6

• Doctor of Medicine

Four years following completion of:
a) a minimum of two years in a degree program in a Canadian university, after completion of six OACs and the OSSD, and obtaining appropriate credit in the prerequisite subjects*, or
b) a bachelor's degree from a recognized non-Canadian university, and obtaining credit in the prerequisite subjects*.

All applicants to the medical course must write the New Medical College Admission Test (MCAT) by the spring of the year preceding the proposed year of entry into the medical course. Applications for this test should be submitted not later than one month prior to the date of the test. Information and applications for the New MCAT may be obtained from the Undergraduate Medical Education Office, Faculty of Medicine, or by writing to: New MCAT Registration, American College Testing Program, P.O. Box 414, Iowa City, Iowa 52243, U.S.A.

Preference is given, in the selection process, to Canadian citizens and permanent residents who reside in Ontario.

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*All applicants are required to have satisfactorily completed the following courses:
Biology or zoology (with lab): one OAC or an appropriate university-level course.
Physics (with lab): one OAC or an appropriate university-level course.
General chemistry (with lab): a university course of one year's duration. Quantitative or qualitative analysis and physical chemistry are acceptable.
Organic chemistry (with lab): a university course of one year's duration.

Address inquiries to
Amanda Gee
Admissions Officer
Undergraduate Medical Education Office
Faculty of Medicine
University of Toronto
Toronto, Ontario M5S 1A8
Telephone (416) 978-2717

Humanities and Related Courses

• Theology (Toronto School of Theology)
Courses are offered by Emmanuel College (United Church), Knox College (Presbyterian), Regis College (Roman Catholic-Jesuit), St. Augustine's Seminary (Roman Catholic-Diocesan), St. Michael's College (Roman Catholic), and Trinity and Wycliffe Colleges (Anglican). Inquiries should be directed to the head of the college concerned, c/o the University of Toronto, Toronto, Ontario M5S 1A3.

Social Sciences and Related Courses

• Bachelor of Laws
Three years following at least two years (ten academic credits) of postsecondary study beyond obtaining an OSSD (at least five years after obtaining an OSSD).
Address inquiries to
Office of Admissions
Faculty of Law
University of Toronto
Toronto, Ontario M5S 2C5

Special Programs

• Transitional Year Program
The Transitional Year Program (TYP) is a full-time course of studies for students who have the potential and motivation to pursue university education but do not possess the required entrance qualifications. The program covers one academic year from September to May. Each year TYP enrols a limited number of promising students who had either earlier dropped out of high school for social or financial reasons or had received diplomas in courses other than the normal university admission stream and are thus academically unprepared for university.

Priority in admission is given to people who clearly have not had a fair chance to qualify for university entry. The program's Admissions Committee considers socio-economic factors such as family income and parents' education in determining whether there were conditions that may have prevented the individual from staying in school despite academic ability.

Students entering the program should be at least 19 years old and typically have been in the work force for at least one year. Applicants are expected to be able to indicate why the Transitional Year Program would be the only route through which they can achieve admission to university.

Students are enrolled for one academic session (September to May) in a special program whose aims are:
(a) to provide the student with the basic learning and communication skills necessary for university;
(b) to give the student exposure to the organized approaches to ideas and problems that characterize social science and humanistic studies;
(c) to help the student obtain course credit in one university subject as part of the student's future university program.

Students in the program are eligible for awards from the Ontario Student Assistance Program (OSAP). For further information about the program, please phone (416) 978-6832.

Residence

Undergraduate
If, on their application for admission, students indicate an interest in residence, they will automatically be sent an application for residence accommodation. Further inquiries about available accommodation should be addressed to one of the following officials:

Director of Residence
University College

Dean of Men or Dean of Women
Victoria College

Dean of Men or Dean of Women
Trinity College

Dean of Men, St. Michael's College, or
Dean, St. Joseph's College (Women)
90 Wellesley Street West
Toronto, Ontario M5S 1C5, or

Dean, Loretto College (Women)
70 St. Mary Street
Toronto, Ontario M5S 1J3

Dean of Men or Dean of Women
New College

Residence Co-ordinator
Innis College

Residence Officer
Scarborough College
Room S303-1
1265 Military Trail
Scarborough, Ontario M1C 1A4

Director of Student Affairs
Erindale College
3359 Mississauga Road
Mississauga, Ontario L5L 1C6

Secretary to the Dean (Men's Residence)
Devonshire House

Fees
For 1988-89 the total cost of residence accommodation, including meals, ranged from approximately $4 500 to $5 000 per session (September to May).

For assistance in finding other accommodation, students should contact
University Housing Service
214 College Street
Koffler Student Services Centre
Toronto, Ontario M5T 2Z9

A variety of residence accommodation is offered by the two independent residences listed below. They have no official connection with the university. Inquiries should be made directly to

Campus Co-operative Residence Inc.
395 Huron Street
Toronto, Ontario M5S 2G5

Tartu College
310 Bloor Street West
Toronto, Ontario M5S 1W4

Scholarships and Financial Assistance

Students in financial need may apply for assistance from a variety of sources. Detailed information concerning government assistance is provided in the *Financial Assistance for Students* section of this publication.

The university, its colleges, and its faculties offer scholarships, bursaries, and emergency loans. Information concerning admission scholarships is available in all Ontario secondary school guidance offices. Students who are not enrolled in an Ontario secondary school or who wish information concerning other types of assistance should contact the Office of Student Awards, Koffler Student Services Centre, University of Toronto.
Inquiries and requests for application forms for student awards should be addressed to
Office of Student Awards
Koffler Student Services Centre
214 College Street
University of Toronto
Toronto, Ontario M5T 2Z9
Telephone (416) 978-7950

Tuition Fees 1989-90

Arts and science $304 per course plus college membership and incidental fees
Applied science and engineering ($1 646 plus $345.79 for incidental fees)
Architecture ($1 646 plus $320 for incidental fees)
Art as Applied to Medicine ($1 520 plus $229.79 for incidental fees)
Dentistry (1st year), ($1 929 plus $212.79 for incidental fees plus $3 665 instruments fee)
Forestry ($1 520 plus $228.29 for incidental fees)
Landscape architecture ($1 646 plus $310.29 for incidental fees)
Law ($1 520 plus $255.29 for incidental fees)
Medicine (1st year), ($1 929 plus $229.79 microscope fee and incidental fees)
Music ($1 520 plus $205.29 for incidental fees)
Nursing ($1 520 plus $217.79 for incidental fees)
Pharmacy ($1 520 plus $220.29 for incidental fees)
Physical and health education ($1 520 plus $210.29 for incidental fees)

Physical and occupational therapy ($1 520 plus $215.29 for incidental fees)

Fees for new international students
Physical and health education, music, law, arts and science, art as applied to medicine $5 721 plus incidental fees. All other programs $9 326 plus incidental and other fees where applicable.
All fees are approximate and subject to change without notice.

Further Information

Inquiries about admission requirements should be addressed to
Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3
Telephone (416) 978-2190

Inquiries about University of Toronto information programs for secondary schools should be addressed to
Secondary School Liaison
Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3
Telephone (416) 978-2771

Trent University

Peterborough

President: John O. Stubbs

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	3 546	72
Part-time	1 551	6

General Admission Requirements

To be eligible for admission to Trent University, an applicant is required to achieve standing at a level acceptable to the university in a full Ontario secondary school program. An applicant is required to have the OSSD or OSSHGD, including a minimum of six OACs or six Grade 13 subjects; or equivalent qualifications from other provinces or countries. For admission consideration, the minimum overall average required on six OACs or six Grade 13 subjects is 60%. However, because of space limitations, applicants presenting the best qualifications will be given preference.

In the transition period from the OSSHGD to the OSSD, both will normally be given equal credit for admission purposes.

No minimum number of years taken to achieve this standing is specified. Although the length of time taken by an applicant to complete the OSSD will not in itself be a determining factor in the admission decision, applicants who have spent more than five years in secondary school may be required to present a higher level of achievement.

Students planning to attend university are encouraged to achieve as much breadth of academic preparation as possible in the course of their secondary school studies.

As the OAC curriculum guidelines are implemented, the university reserves the right to alter specific subject requirements for various programs. Applicants to all programs must have successfully completed an OAC English course as well as having OACs in at least four academic disciplines. Applicants to science programs are advised to consult the secondary school requirements of individual disciplines as shown in the "Courses of Study" section of the Trent University calendar.

Students entering the administrative and policy studies program must have completed Grade 12 mathematics at the advanced level or its equivalent with a good standing. It is recommended that applicants have one of Grade 13 algebra, calculus, or functions and relations.

Applicants should refer to the calendar for information about admission and program requirements for the Trent-Queen's teacher education program and the administrative policy studies program.

Agricultural and Biological Sciences

- **Bachelor of Science**

Three-year general/four-year honours
Available in: biology.

Admission requirements
See *General Admission Requirements.*

Education/Physical Education/Recreation

- **Concurrent Teacher Education**

An innovative approach to teacher education that is run co-operatively with Queen's University at Trent, this program enables students to study towards a Bachelor of Arts or Bachelor of Science degree, and to fulfil the requirements of the Bachelor of Education degree at the same time, while practice-teaching in local elementary or secondary schools in each year.

Humanities and Related Courses

- **Bachelor of Arts**

Three-year general/Four-year honours
Available in: cultural studies, English, French, German, Greek, history, Latin, philosophy, Spanish.

Admission requirements
See *General Admission Requirements.*

Mathematical and Physical Sciences

- **Bachelor of Science**

Three-year general/four-year honours
Available in: chemistry, mathematics, physics.

Admission requirements
See *General Admission Requirements.*

Computer studies
Computer studies offers the opportunity to study internationally recognized curriculum courses in core computer science along with other supporting courses designed to broaden the scope of an education in computing. The program is structured to provide a three- or four-year, joint-major or joint-honours degree.

Social Sciences and Related Courses

- **Bachelor of Arts**

Three-year general
Available in: anthropology, classical studies*, comparative development studies, computer studies, economics, environmental and resource studies, geography, history*, Native management and economic development, Native studies, politics, psychology, sociology.

Four-year honours
Available in: administrative and policy studies, anthropology, Canadian studies, classical studies*, comparative

* For the purposes of Trent University, these courses fall under the Humanities heading.

development studies, economics, environmental and resource studies, geography, history*, Native management and economic development, Native studies, politics, psychology, sociology.

• Bachelor of Science

Three-year general/four-year honours
Available in: anthropology, economics, environmental and resource studies, geography, psychology.

Admission requirements

See *General Admission Requirements.*

• Bachelor of Administrative Studies

The program in administrative and policy studies is designed to provide students with a grounding in various administrative practices such as accounting, computer science, commercial law, management science, marketing, and statistics. Students are required to develop skills in effective communication and long-range policy making in preparation for broad career areas in government and industry. This is a four-year program leading to the degree of Bachelor of Administrative Studies.

Canadian studies
The Canadian studies program looks critically and analytically at many aspects of Canadian life from a variety of perspectives within traditional disciplines and core courses. In addition to 30 core courses, about 60 support courses are offered in 11 different areas.

Native management and economic development
This program aims to educate students and practising managers and administrators by providing training in management and entrepreneurial skills, research, and demonstration projects in the context of Native communities. It is a co-operative effort of the Department of Native Studies and the administrative and policy studies program, leading to a two-year diploma, a Bachelor of Administrative Studies with an emphasis in Native management and economic development, or an ordinary or honours Bachelor of Arts in Native Studies with an emphasis in Native management and economic development. Students of Native ancestry are encouraged to apply.

Native studies
The Native studies program deals with the problems, culture, languages, and history of Canadian Native peoples in 37 course offerings. Academic study is supplemented at all levels by practical work and field placements in Native communities and organizations.

Environmental and resource studies
The environmental and resource studies program considers resource management and environmental problems in a Canadian context. The program offers both B.Sc. and B.A. streams.

Comparative development studies
The comparative development studies program involves the comparative examination of societies and culture undergoing rapid change, and their relationship to the industrialized world.

Cultural studies
Cultural studies examines the interplay between culture and the arts through an analysis of the social conditions that shape creative thought and expression. Over 30 courses are available in several areas: film, criticism, drama, literature, and visual arts.

Women's studies
Women's studies provides an opportunity to pursue an ordinary joint major degree by combining women's studies core and support courses with a joint major in another discipline.

• General Degree

The special emphasis program at the ordinary and honours levels meets the needs of students who choose to take a broad range of subjects rather than major in one or more particular disciplines. Students may undertake independent study in such areas as: archaeology and the ancient world, business studies, Canadian-American relations, child studies, comparative social inequality, development of Western thought, educational studies, freshwater studies, human biology, international studies, international trade and development, legal studies, nineteenth-century studies, quantitative methods, regional development and planning, renaissance and reformation studies, religious studies, social services and native people, studies in Canadian literature and culture, studies in labour relations, studies in political economy, studies in satire, and urban studies.

• French, German, and Spanish Study Abroad

Trent University students may study abroad for one academic year and obtain credits for regular Trent language courses. Courses are taken under the supervision of Canadian faculty and are offered at the following universities: Nantes (France), Freiburg (West Germany), and Granada (Spain). Students can also take courses along with European students for credit and will benefit from all the facilities offered the normal European student – subsidized meals and accommodation, cultural trips, and cheaper transportation. The cost of the whole year abroad, including accommodation, will not normally exceed that of a year in residence at Trent and can be reduced considerably in Freiburg and Nantes by students who wish to earn money during the holidays. These programs are especially recommended for honours candidates. Inquiries should be directed to the chairman of the appropriate department.

• Trent University International Program

The international program will appeal to prospective university students of all nationalities who wish to enrich their education by studying as members of an integrated group of young men and women drawn from many different countries and regions, by acquiring knowledge and understanding of global and regional problems, and by developing the abilities that will enable them to serve the needs of their people and the international community more effectively.

Students who enrol in the program will have a normal choice of the courses offered at Trent. They must be proficient in more than one language, and those whose mother-tongue is English and who are not already bilingual must study a second language for at least two years. They will also be involved in a *Colloquium on World Affairs* once a week, which will be open to all members of the university. About one-quarter of the students in the program will be Canadians, and these students will be expected to provide a link between those from other countries and the local community.

Interested students should consult the Trent calendar for information on admission requirements.

Residence

About one-third of Trent's students live in residence. Trent houses 1 100 students in the five residential colleges: two in the city of Peterborough and three on the main campus. These residences offer a variety of accommodation, ranging from Victorian mansions to the most modern residence complexes. Most of the rooms (81%) are singles. Normally the university can accommodate about 600 year 1 students in the residential colleges. Non-resident members of the colleges are entitled to full use of college facilities.

Fees 1989-90
(including meals)
Single $4 029
Double $3 813
Townhouse (excludes meals) $2 231

Scholarships and Financial Assistance

The university has a generous program of scholarships and assistance to students entering first or higher years with first-class standing. Students of exceptionally high achievement and promise may be awarded a Champlain Scholarship, which has an annual value equal to the cost of tuition and residence. The university calendar, available in most libraries and guidance offices, provides further details of Trent University's program of scholarships, awards, and bursaries.

Students in financial need may apply for assistance from a variety of sources. Government assistance, available to full- and part-time students, is explained in this publication's introductory section on financial assistance. Students should also check with the university's Financial Aid Office.

Tuition Fees 1989-90
(including ancillary and student government fees)
Tuition $1 972.28

Further Information

Inquiries are welcome and should be directed to
A.P. Saxby
Registrar/Director of Admissions
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1215

Inquiries about student awards should be directed to
Yvonne Del Mastro
Financial Aid Officer
Trent University
Peterborough, Ontario K9J 7B8

University of Waterloo

Waterloo

President: D.T. Wright

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	15 401	1 536
Part-time	6 291	400

Faculties, Schools, and Institutes
Faculty of Applied Health Sciences
Faculty of Arts
Faculty of Engineering
Faculty of Environmental Studies
Faculty of Mathematics
Faculty of Science

Admission Requirements

General (for all programs)
Completion of a secondary school program including at least six OAC credits leading toward the OSSD, with a minimum 60% overall average. The university expects to fill the majority of places available to secondary school applicants by using the following criteria:
a) OAC interim or final standing,
b) Grade 12 final standing,
c) school official's comments,
d) personal information supplied by applicant,
e) references and interviews where required.

The length of time taken by an applicant to complete the secondary school program will not of itself be a determining factor in the admission decision, providing the student has proceeded normally through the program without repeating any courses or credits.

Applicants whose interim standing is not sufficient for admission will be considered on the basis of their final standing, and qualified applicants will be admitted until the remaining places are filled.

Applicants whose native language is not English will be expected to satisfy English-language requirements, and to this end, they are required to write the Test of English as a Foreign Language (TOEFL). This language requirement applies to both regular and co-op applicants. A score of 600 is normally required.

Recommendations for admission
The university has recommended that certain courses be included in the applicants' secondary school program. These courses are not required for admission, but applicants will benefit by having these courses as background for their first year of studies. Where specific requirements are stated, applicants must include these requirements in their secondary school program.

Because many of the programs offered at the university have limited enrolment, the possession of the minimum requirements does not guarantee admission to any of the programs.

Regular and co-operative systems of study
As well as offering a regular system of study in which students enrol from September to April, the university offers a co-operative education system in all faculties and within a broad range of academic and professional studies. Students enrolled in the co-operative programs alternate academic terms on-campus with work terms in business, industry, or government. The study and work terms are each four months long. The Department of Co-operative Education and Career Services makes the necessary arrangements for the work terms. Applicants to the co-operative programs must be Canadian citizens or permanent residents.

Education/Physical education/Recreation – Concurrent education
French Teaching Specialization

This is a special program of study within the Faculty of Arts applied studies co-op program. Students graduate with an honours B.A. in French (applied studies co-op) from Waterloo, the B.Ed. awarded by Brock University, certification to teach French and a second subject at the secondary level, and complete an eight-month co-op placement, which is the teaching practicum.

Mathematics Teaching Option

The co-operative mathematics teaching option is an integrated program offered jointly by the Faculty of Mathematics at the University of Waterloo and the Faculty of Education at the University of Western Ontario. This program combines an academic program in mathematics, teaching experience in secondary schools, and professional training. The graduate is fully qualified as a secondary school mathematics teacher in Ontario.

In the co-operative biology, biochemistry, chemistry, and physics programs, it is possible to replace one work term with an academic term at the Faculty of Education at Queen's University, and to gain teaching experience during other work terms. Graduates are awarded a B.Ed. degree from Queen's University as well as a B.Sc. degree from the University of Waterloo.

Arts programs
The Faculty of Arts operates on a term-course system, whereby students' progress toward a degree is measured by term courses successfully completed.

Students may obtain a Bachelor of Arts degree by following a general program with a major (successful completion of 30 term courses as specified by the department), a four-year general program with a major (successful completion of 40 term courses as specified by the department), or an honours program with a major (successful completion of 40 to 48 term courses as specified by the department). With the exception of honours accountancy studies and social development studies, which admit students directly to a major, students may declare a general or honours major following completion of year 1. Co-operative programs leading to an Honours Bachelor of Arts degree are available in all honours arts disciplines.

Students in an honours or four-year general program may have a minor concentration consisting of 10 term courses successfully completed in a second discipline or multidisciplinary area. Joint honours programs are available. There are no double majors or minors in the three-year general program. Interdisciplinary options may be selected with a general or honours program.

General and honours majors and options available are listed under specific subject areas.

An arts student may also graduate with a three- or four-year general arts degree (non-major) upon completion of 30 or 40 term courses, respectively, as specified by the faculty.

Admission requirements

Students applying for admission to year 1 regular arts or honours co-op applied studies are required to present six OAC/Grade 13 credits, including English and one other arts-related course. Applicants to year 1 honours co-op accountancy studies must present six OAC/Grade 13 credits including English. All first-year Faculty of Arts programs have limited enrolment and, in recent years, most students admitted to arts regular have had averages of 70% or better, while most students admitted to honours co-op applied studies and honours co-op accountancy studies have had averages of 80% or better. Applicants with lower averages may be admitted on the basis of other indicators. Arts-related courses include English, history, languages, social sciences, and fine and performing arts. Applicants considering accountancy studies co-op should take courses in calculus and another mathematics course. An OAC/Grade 13 mathematics course is recommended for applicants considering a social science program. Finite mathematics is appropriate for most social science programs; calculus is preferred for applicants who wish to major in economics.

First-year program

In year 1, students in arts regular select an exploratory program of ten term courses (five courses in each term). At the end of year 1 and depending upon performance in year 1 courses, students may proceed to regular general or honours major programs or into departmental co-op programs that are available with honours majors in one of anthropology, economics, English, political science, political science (administrative studies option), psychology, or sociology.

Students admitted to arts co-op applied studies select ten term courses in the first year, six of which are required by applied studies. At the conclusion of year 1, and on the basis of performance in year 1 courses, applied studies co-op students select an honours major in any of the disciplines in the humanities, languages, fine and performing arts, or social sciences. Students intending to take the arts administration specialization, the French teaching specialization, or the international trade specialization must complete the first year in applied studies co-op. As well, students admitted to year 1 arts co-op applied studies may choose to proceed into a regular general or honours program or into one of the departmental co-op programs listed above.

Students applying to arts co-op accountancy studies will be admitted to either honours co-operative chartered accountancy studies or honours co-operative management accountancy studies. Students in either co-op accountancy studies program select 12 term courses in year 1 (six in each term) as specified by accounting. Students considering entering the combined honours B.A. in accounting and master's in accounting degree, to which students are admitted after completing two years of university study, may enrol in any co-op accountancy studies program or other university program that permits completion of the prerequisite university courses.

Science programs

The Faculty of Science operates under the credit system, where student progress is measured in terms of credits completed.

The three-year general science program requires a total of 15 credits. It is not necessary that a student designate a major subject.

The honours programs in science require a minimum of 20 credits with or without a specialization.

Applicants must present six OAC/Grade 13 credits, including two science credits from biology, chemistry, and physics; two mathematics credits, one of which must be calculus and the other from algebra and geometry or finite mathematics.

Students planning to major in biology or the earth sciences/geography programs must include university-entrance level chemistry. Those planning to major in any chemistry, biochemistry, optometry, or other earth science programs must include both university-entrance level chemistry and physics. Students planning to major in physics programs must include university-entrance level physics.

Applicants to all science programs should select both university-entrance level chemistry and physics courses. A course requiring writing skills would be an asset.

For co-operative applied chemistry and physics, both university-entrance-level finite mathematics *and* algebra and geometry are recommended. For the geophysics option within co-op applied earth sciences, university-entrance-level OAC algebra and geometry is recommended.

First-year programs (regular and co-op.)

Students are admitted to one of the following programs in the Faculty of Science: co-op biology, co-op biochemistry, co-op chemistry, co-op earth sciences, co-op physics, or regular honours science. Regular honours science students may choose a major field of study or, if undecided, stay in honours science – program 1 (non-specialized).

The normal minimum course load for a full-time student in year I science is five lecture courses plus required labs per term. At least two of these must be lecture credits from the year I offerings in two different disciplines from the Faculty of Science.

Students are encouraged to select an arts elective (preferably English or psychology). Courses should be chosen either with a specific year 2 goal in mind or to cover many year 2 programs.

Agricultural and Biological Sciences

• Bachelor of Science

Four-year honours

Available in: biochemistry, biology (biotechnology option), biology and environment and resource studies, biology and business economics.

Admission Requirements

Admission requirements, "Science programs".

Engineering and Applied Science

The Bachelor of Applied Science degree is offered through the Faculty of Engineering. Seven honours programs in engineering are available: chemical, civil, computer, electrical, geological, mechanical, and systems design. All programs are offered only in the co-operative system of study. The Bachelor of Applied Science program is four and two-thirds years in length. In the first year, programs are designed to prepare the student for specialized work in advanced years of the seven different programs. The first-year programs are sufficiently similar that a student can apply to transfer into the second year of a different program. In some cases, make-up work is required.

Admission requirements

Students are required to present six OAC/Grade 13 credits including OAC algebra and geometry, OAC calculus, chemistry, physics, and English I. Finite mathematics and a computer science course are recommended.

In recent years most students admitted have had averages of 75% or better; however, a number of students with lower averages are admitted when other evidence indicates an aptitude and interest in engineering or extensive participation in extracurricular activities.

Applicants lacking any of the specified courses, but whose overall average is high, should contact the admissions officer no later than December for admission the following September. Applicants will be evaluated and advised on the possible courses of action required to meet our specific requirements.

Fine and Applied Arts

• Bachelor of Arts

Three-year general (with major)
Available in: drama and theatre arts, fine arts (studio, history, film studies options), music.

Four-year general
Available in: drama and theatre arts, fine arts (options in studio, art history).

Four-year honours (regular, applied studies co-op, or applied studies co-op – arts administration specialization).
Available in: drama and theatre arts, fine arts (options in studio, history, film studies), music.

Admission requirements
See *Admission Requirements*, "Arts Programs".

Health Professions and Medical Sciences

• Doctor of Optometry
This is the only English-language optometry program in Canada. Students may apply to enter after a minimum of one year of a science program, although the majority of applicants are accepted after two or more years of university. It is a four-year professional program, and because enrolment is limited to 60 students per year, applications to the first professional year are considered on a competitive basis involving academic and non-academic selection criteria. Graduating students receive a Doctor of Optometry degree (O.D.). The program is accredited by the Council of Education of the American Optometric Association.

• Bachelor of Science

Four-year honours
Honours science (program 2-specialization in biology), pre-health professions option. Suitable preparation for work in medicine, dentistry, physiotherapy, radiotherapy, and chiropractic, or for graduate study in the health disciplines.

Admission requirements
See *Admission Requirements*, "Science programs".

Humanities and Related Courses

• Bachelor of Arts

Three-year general (with major)
Available in: classical studies, English, French, German, Greek, history, Latin, medieval studies, philosophy, religious studies, Russian, Spanish.

Four-year general (with major)
Available in: classical studies, English, French, history, philosophy, religious studies, Spanish.

Four-year honours (regular, applied studies co-op, applied studies co-op – arts administration specialization, applied studies co-op – French teaching specialization, applied studies co-op – international trade specialization)
Available in: classical studies, English, French, German, history, Latin, medieval studies, philosophy, religious studies, Russian (no applied studies co-op), Slavic studies, Spanish.

Admission requirements
See *Admission Requirements*, "Arts programs".

Interdisciplinary Options or Minors

Canadian studies, East Asian studies, gerontology, international studies, Latin American studies, legal studies, management studies, Middle East studies, peace and conflict studies, personnel studies, society, technology and values, studies in the French language, studies in personality and religion, studies in sexuality, marriage and the family, and women's studies are options/minors that may be combined with general and honours programs. The Faculty of Arts also offers a speech communication option or minor. Please consult the university calendar for details.

Admission requirements
See *Admission Requirements*, "General (for all programs)".

Mathematical and Physical Sciences

• Bachelor of Mathematics
Academic programs available
The Faculty of Mathematics consists of the departments of applied mathematics, combinatorics and optimization, computer science, pure mathematics, statistics and actuarial science, and a division of mathematics for industry and commerce.

The Faculty of Mathematics offers undergraduate programs leading to the following Bachelor of Mathematics degrees: four-year B.Math. honours; three-year B.Math. general.

B.Math. honours programs are designed for full-time, on-campus students who wish to pursue four years of in-depth studies in the mathematical sciences. Honours programs are more demanding than the general program, in that they require more in-depth mathematics courses, a higher proportion of mathematics vs. non-mathematics courses, and a larger total number of courses. The three-year B.Math. general program, on the other hand, is intended for students who, while they have a definite interest in mathematics, may prefer more latitude in the depth and breadth of their course selection, or perhaps simply want to limit their studies at university to three academic years rather than four. The course requirements for a three-year B.Math. general degree allow students to pursue a more general education and include a larger proportion of non-mathematics courses in their program than is the case with honours programs, a feature which can often appeal, for example, to students seeking a pre-professional university program. Furthermore, since there are no on-campus full-time residency requirements for a three-year B.Math. general degree, students can pursue such a program on either a full- or part-time basis, either on campus or by correspondence through the University of Waterloo correspondence program.

Most of the faculty's four-year honours programs are available in both the regular (i.e., conventional September to April academic year) and co-operative (i.e., alternating four-month academic and work terms) systems of study, but some are available only in the co-operative system of study. The three-year B.Math. general program is available only in the regular system of study.

Wherever honours programs are available in both systems of study, the academy degree requirements are identical for both co-operative and regular students. For a co-operative program, there are also additional degree requirements pertaining to work terms and written work reports.

Students may register in any mathematics program through St. Jerome's College.

The usual course load each term for first-year mathematics students consists of algebra, calculus, and computer science, regardless of which particular program may be of potential interest in later years, plus two non-mathematics courses, which may depend upon the program(s) of potential later interest. This commonality of core curriculum, which continues to a large extent into year 2, permits considerable flexibility for students to change from one program to another within the faculty. In fact, if non-math courses are chosen judiciously, this flexibility for change can be extended to many programs in other faculties as well.

The following departmental honours programs are available: actuarial science, applied mathematics, applied mathematics with engineering electives (co-op only), combinatorics and optimization, computer science, computer science with electrical engineering electives (co-op only, computer science/information systems option (co-op only), operations research, pure mathematics, statistics, and applied statistics with engineering electives (co-op only). Joint honours programs combining computer science with applied mathematics, business administration, chartered accountancy (co-op only), combinatorics and optimization, management accounting (co-op only), pure mathematics, or statistics are also available. As well, students may enrol in various double honours combinations, both within the Faculty of Mathematics and with academic disciplines in other faculties.

The following mathematics programs with specialized options are also available: mathematics/business administration, mathematics/chartered accountancy (co-op only), mathematics/management accounting (co-op only), mathematics/teaching (co-op only).

The Faculty of Mathematics, in co-operation with the division of mathematics for industry and commerce, the School of Business and Economics at Wilfrid Laurier University, the departments of economics and management sciences, and the School of Accountancy at Waterloo, offers unique programs combining mathematics with business administration, chartered accountancy, and management accounting. Each of these is designed so that students gain an appreciation of the applications of mathematics to commerce and gain experience in areas such as banking, marketing, production control, accounting, auditing, etc. All three options are available at the honours level only in the co-operative system of study. Only the business administration option is available in the regular system of study.

The chartered accountancy and management accounting options are offered in co-operation with the Institute of Chartered Accountants of Ontario and the Society of Management Accountants of Ontario, respectively. Graduates of the chartered accountancy option will normally have completed all formal university course work required by the institute. The other principal requirements for the CA designation include two or three years' work experience in public accounting and successful completion of the national institute's uniform final examinations. The management accounting option is structured so that successful completion of the program normally qualifies a student for 16 CMA exemptions and also to write four of the society's six uniform national examinations required for CMA (Certified Management Accountant) certification.

Co-operative work terms are accepted by both the institute and the society as part of their respective internship requirements. Thus, co-op graduates of the mathematics/accounting programs are able to complete all institute or society requirements in as little as one year after graduation.

Graduates of the programs offered by the division of mathematics for industry and commerce will be equipped to continue with a postgraduate level of education in subjects related to business and management. Recently a linkage program has been established with the School of Business and Economics at Wilfrid Laurier University that will permit graduates to obtain an M.B.A. degree in as little as one year following completion of the honours B.Math. degree.

The co-operative teaching option in the Faculty of Mathematics is an integrated program involving the Faculty of Mathematics and the Faculty of Education at the University of Western Ontario. The program combines an academic program in mathematics, co-op work experience in business and industry, teaching experience in Ontario secondary schools, and professional training in education. Graduates obtain a B.Math. degree from Waterloo and a B.Ed. degree from Western, and they emerge as fully qualified secondary school mathematics teachers in Ontario.

Students interested in the teaching option should enrol in any one of the Faculty of Mathematics co-operative programs in the first year. Candidates for admission to the teaching option are considered in year two on the basis of first-year academic and work-term performance and success in an interview process.

For students who wish to have breadth of mathematics studies at the honours level rather than specialization, the faculty also offers an interdepartmental honours program. Students select a wide variety of courses from the complete spectrum of departmental offerings. Graduates of this program will be prepared either for careers in the applications of mathematics or for graduate studies. By choosing appropriate courses, a student should be eligible to proceed from this program to graduate work in any area of mathematics.

Faculty admission requirements

Applicants are encouraged to develop as much breadth as possible by choosing courses from the arts, humanities, social sciences, and physical sciences. In particular, it is recommended that applicants considering a mathematics and accounting program include at least one accounting course as part of their secondary school program.

Applicants are required to have a minimum of six OAC/Grade 13 credits, which must include OAC algebra and geometry, OAC calculus, and OAC English, with a minimum grade of 60% in each of the three required courses. Although finite mathematics is not a specific requirement and lack of it will not adversely affect consideration for admission, it is strongly recommended that applicants include this course in their selection.

Applicants presenting a combination of OAC/Grade 13 mathematics credits will be considered on an individual basis. However, OAC English is a requirement for all applicants presenting either OAC calculus or OAC algebra and geometry.

The majority of admitted students have averages of 75% or higher. The admissions committee also pays close attention to evidence of an exceptional aptitude and interest in mathematics, teachers' recommendations, performance in the Descartes Mathematics Contest, the number and variety of OAC/Grade 13 credits, and involvement in extracurricular activities. Students not offered admission to the program of their choice are considered for all other mathematics programs.

Admission to specialized programs

Students admitted to the Faculty of Mathematics identify with a specific program within the faculty at different year levels, depending upon admission category and particular program of interest. The only students admitted to specialized honours programs in year 1 are co-op students who wish to register in one of the following programs: actuarial science, applied mathematics with engineering electives, mathematics/ chartered accountancy, or mathematics/ management accounting. These co-op students are identified at the beginning of year 1 because of the specialized nature of the work-term employment involved.

All other mathematics students register in the interdepartmental honours program in year 1. In subsequent years, beginning with year 2, students may elect to enter a specialized program or choose to remain registered in the interdepartmental honours program. For many specialized honours programs, admission at the year 2 level is normally automatic for students who have successfully completed year 1. However, in the case of certain restricted-enrolment programs, there is a formal admission process. Academic performance in first year and/or the results of personal interviews are normally the main criteria for admission to restricted enrolment programs.

For more detailed information, please consult the university undergraduate calendar and/or contact the Assistant Registrar, Faculty of Mathematics.

• Bachelor of Science

Four-year honours

Available in: biochemistry, chemistry (options in environmental studies, mathematics, physics), earth sciences (options in geology, geophysics, geography, and economics), physics (variety of options).

Admission requirements

See *Admission Requirements*, "Science programs".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general (with major)

Available in: anthropology, classical studies[*], economics, geography[†], history[*], medieval studies[*], political science, psychology, social development studies (Renison College), sociology.

Four-year general (with major)

Available in: anthropology, economics, geography, political science, psychology, sociology.

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[*] For the purposes of the University of Waterloo, this course falls under the humanities heading.

[†] Students may also pursue a geography program through the Faculty of Environmental Studies. They may not pursue a geography program through an Applied Studies program.

Four-year honours (regular, applied studies co-op, applied studies co-op – arts administration specialization, applied studies co-op – international trade specialization)
Available in: anthropology, classical studies*, economics, geography (no applied studies co-op)†, history*, medieval studies*, political science, political science (administrative studies option), psychology, social development studies (Renison College), sociology.

Four-year honours (co-op)
Available in: chartered accountancy studies, management accountancy studies. A combined honours B.A. in accounting and master's degree in accounting (M.Acc.) has received special status from the Institute of Chartered Accountants of Ontario and from the Society of Management Accountants of Ontario. Graduates of this program will proceed directly to write the Uniform Final Examinations (CA) or the Final Accreditation Examinations (CMA).

Co-operative work terms are accepted by both the institute and the society as part of their respective internship requirements. Thus, co-op graduates are able to complete all institute or society requirements in as little as one year after graduation.

• Bachelor of Environmental Studies
The Faculty of Environmental Studies is comprised of two professional schools (School of Architecture and School of Urban and Regional Planning) and two academic departments (Department of Environment and Resource Studies and Department of Geography).

Students may be granted a Bachelor of Environmental Studies degree in the following programs: honours in environment and resource studies – four years, four and two-thirds years co-op system; honours geography – four years, four and two-thirds years co-op system; major in geography (general degree) – three years; honours in urban and regional planning – four years, four and one-third years co-op system; architecture (pre-professional program) – three and one-third years co-op system.

The professional Bachelor of Architecture degree is granted after two and two-thirds additional years of study following the completion of the Bachelor of Environmental Studies/Architecture pre-professional program. The professional Bachelor of Architecture program is on the rotating work/study co-op system only.

Admission requirements
Applicants to environment and resource studies, geography, or urban and regional planning must present six OAC/Grade 13 credits including English. It is recommended that students present at least one OAC/Grade 13 credit in mathematics for admission to programs in environmental studies.

University-entrance level geography is recommended for the geography program. University-entrance level science is recommended for the environment and resource studies program.

For specialization in architecture, students must present six OAC/Grade 13 credits including English or *français*, calculus, physics, algebra and geometry (OAC). Finite mathematics is strongly recommended.

Selected applicants to the architecture program are normally required to attend an interview at the university. Admission is based on the results of the interview (including a required portfolio), an English writing exercise designed to test skills of analysis and expression, and secondary school achievement.

Selected applicants to the planning program are normally required to come to the university for an interview as part of the admission process. Selection for the interview is based on the secondary school record, including university-entrance level courses. Admission is based on the results of the interview, letters of reference, a personal information form, and secondary school achievement.

• Bachelor of Science
Four-year honours
Available in: liberal science, psychology, science (non-specialized), science and business.

Admission requirements:
See *Admission Requirements*, "Science programs".

Special Programs

• Bachelor of Arts
Honours co-operative program
The honours applied studies co-op program allows students to select an honours major in any discipline in the faculty, including anthropology, classical studies, drama and theatre arts, economics, English, fine arts, French, German, history, Latin, medieval studies, philosophy, political science, psychology, religious studies, Slavic studies, social development studies, sociology, or Spanish. Courses in economics/accounting and management, communications, computer science, and Canadian issues are included in the applied studies program. Students may enter the arts administration specialization, French teaching specialization, and international trade specialization from applied studies. The arts administration specialization provides specific training and experience in the management of fine and performing arts organizations. The French teaching specialization combines an honours B.A. in French and a B.Ed. from Brock University and provides the necessary academic and practical preparation necessary for certification in Ontario. The international trade specialization, in applied studies co-op, provides academic and employment preparation for international trade careers.

Admission requirements
See *Admission Requirements*, "Arts programs."

• Bachelor of Science
Honours co-operative programs
Six programs that begin in first year are offered under the co-operative system of study: co-op biology, co-op biology/business economics, co-op biochemistry, applied chemistry, applied earth sciences (geology and geophysics), and applied physics (also with geophysics option). These programs provide the student with the sound academic training and practical experience normally gained in industry and governmental agencies.

Admission requirements
See Admission Requirements, "Science programs".

Honours science and business
Honours science and business is a four-year honours degree. There is a growing need for graduates who are competent in the combined disciplines of science and business. The knowledge and skills required by managers have never been greater. The modern manager must have a knowledge of finance, economics, accounting, marketing, and organizational behaviour as well as the quantitative methods deeply ingrained in the scientific method. A quantitative overview of science and acquired skills in the scientific method will be extremely useful in identifying and solving problems in the increasingly technology-oriented business world.

The program is recommended for those students leaning towards administration in industry. The business, economics, accounting, finance, and mathematics courses required in this program mirror some of the courses taken in graduate M.B.A. programs. Credit for some of these courses may be allowed by some of the admitting universities offering M.B.A. degrees.

Liberal science
Liberal science (science for generalists) is a four-year honours or three-year general degree. This program, developed from a restructuring of the general science program, is intended to present a broader perspective on science. It is a four-year honours program, but students may earn a three-year degree with a liberal science label by meeting certain conditions. A liberal science option is also available for students in other programs. The goal of the program is to produce a generalist capable of understanding specialist areas in science, and

*For the purposes of the University of Waterloo, this course falls under the humanities heading.

†Students may also pursue a geography program through the Faculty of Environmental Studies. They may not pursue a geography program through an Applied Studies program.

with some experiences in doing so in at least two sciences.

Admission requirements
See *Admission Requirements*, "Science programs".

• Bachelor of Independent Studies
The independent studies program provides students with the opportunity to create, structure, and pursue their own studies using the resources of the university and the community. The program may include a combination of independent research, course work, seminars, tutorials, special projects, and field work.

The B.I.S. degree is awarded on the basis of the recommendation of supervisors (including two university faculty), appointed by the Academic Board for Independent Studies, which evaluates the student's program during a concluding two-term candidacy period. Applicants (with or without a formal background) are expected to show strong aptitude for self-direction and the ability to flourish in an unstructured academic setting.

• Bachelor of Arts (Dance),
Bachelor of Science (Health Studies),
Bachelor of Science (Kinesiology),
Bachelor of Arts (Recreation and Leisure Studies)
The Faculty of Applied Health Sciences (formerly Human Kinetics and Leisure Studies) offers two liberal arts and two human science programs. The dance program (B.A.) is available only under the regular system. The health studies (B.Sc.), kinesiology (B.Sc.), and recreation and leisure studies (B.A.) programs may be studied in either the regular or the co-op system.

The regular honours programs are four years in length, and the honours co-op programs are four and two-thirds years in length. A three-year general program in dance is also available.

In the dance program, students study the history of dance, child development theories as they apply to teaching dance, dance notation, and choreography. A full range of technique courses is offered in both ballet and modern, from the elementary to advanced levels. Talented dancers are able to pursue a joint academic/professional teaching stream that is offered in conjunction with the National Ballet School. Careers: dance teacher, dance notator, dance therapist, choreographer, movement education consultant, arts administrator.

The health studies program, unlike high school health classes, focuses on understanding the human body, health issues, the relationship between lifestyle and health, and the importance of disease prevention. Students learn how to design, set into motion, and measure the effectiveness of programs aimed at improving health and lowering the risk of disease. Areas of specialization include health promotion, environmental health, biomedical studies, and health administration. Careers: health educator, health planner, research co-ordinator, health and safety consultant, health promotion consultant, health information analyst, health care consultant. Health studies is also an excellent program for students who are considering a career in medicine or other health professions. (A pre-health professions option is also available.)

Kinesiology students approach human-movement issues from a scientific perspective. Describing, identifying, analysing, and adapting human performance is the focus of this program. Students obtain a solid background in biomechanics, exercise physiology, psychomotor behaviour, and social sciences. Specializations are available in sports medicine, kinesiology in the workplace, physical and cardiac rehabilitation, exercise management, research, special testing, teaching, and professional school preparation. Careers: athletic therapist, health and safety specialist, employee fitness director, joint disease research assistant, worksite analyst, exercise physiologist, rehabilitation consultant, fitness consultant, electromyography technologist. Kinesiology is also an excellent program for students who are considering a career in medicine, chiropractic or other health professions. (A health professions preparation program is available.)

Recreation and leisure studies prepares graduates to take on administrative roles in the recreation and leisure industry. Students obtain a solid background in human behaviour, resource use, social issues, and public policy as they relate to the field of recreation and leisure. Specializations are available in business management, human development and therapeutic recreation, urban and municipal recreation, parks and outdoor recreation, cultural policy and leisure behaviour, and tourism and cultural recreation. Careers: recreation consultant, manager of tourism and convention services, director of parks and recreation, recreation therapist, sport consultant, recreation planner, community arts development officer, tourism consultant.

Admission requirements
Applicants to the dance program are required to have six OACs or six Grade 13 credits. It is recommended that applicants include English in their university-entrance level programs. Auditions for technique placement in ballet and modern dance are required and are held in the spring.

Applicants to the health studies program are required to have six OACs or six Grade 13 credits, including biology and chemistry. Calculus is recommended. Applicants are strongly encouraged to complete a personal information form.

Applicants to the kinesiology program are required to have six OAC or Grade 13 credits including calculus, chemistry, and one science from biology or physics. Physics is especially recommended. Applicants are strongly encouraged to complete a personal information form.

Applicants to the recreation and leisure studies program are required to have six OAC or Grade 13 credits. It is recommended that applicants include both a university-entrance level mathematics course and an English course.

Applicants are strongly encouraged to complete a personal information form.

[illegible]

The University of St. Jerome's College, federated with the University of Waterloo, is located in the heart of the university campus, and offers programs in liberal arts and mathematics. Students earn University of Waterloo degrees. Undergraduate students may register in regular and departmental co-operative programs in arts and in all regular and co-op programs in mathematics through the college. St. Jerome's offers a unique perspective in its own wide range of courses, and its students enjoy both the benefits of a large university and the advantages of being part of a smaller college community. Thirty full-time and six part-time professors comprise the college's faculty. Students can live in St. Jerome's men's or Notre Dame women's residences and participate in many social and athletic activities on campus. A generous scholarship program is available to all applicants who register in arts or mathematics at St. Jerome's.

[illegible]

An affiliate of the University of Waterloo, Renison College offers men and women the experience of a small residential teaching community combined with the resources of the larger university.

Courses leading to a Bachelor of Arts degree are available in two areas:
a) social development studies, a multidisciplinary program combining courses in social science, psychology, social work, and sociology. Designed for persons interested in the helping professions, this program has been used as a preparation for careers and graduate studies in social work and as a background for studies in education, theology, law, and journalism. A social work diploma program can be included to give students placement experience in local social service agencies;
b) general arts, including courses in Chinese, East Asian studies, English, fine arts, geography, Japanese, psychology, religious studies, and sociology.

The college also offers two social work certificate programs. Entrance scholarships are available.

[illegible]

Conrad Grebel College is a Mennonite-sponsored residential and teaching college affiliated with the University of Waterloo. A faculty of nineteen offer university credit courses in interdisciplinary arts, history, philosophy, religious studies, sociology, and peace and conflict studies. In addition, the college provides the entire music program for the University of Waterloo. The college also offers a Master of Theological Studies (M.T.S.) program. The residence program emphasizes a responsible and caring community and encourages Christian values. In addition to accommodating 113 students in residence, the college also provides an associate student program for students unable to live in residence but desiring some involvement with the college.

[illegible]

St. Paul's United College is a small teaching and residential community. It offers a number of university credit courses in religious studies and Canadian studies. For more information about these programs, refer to the appropriate sections in the undergraduate calendar of the university.

Residence life provides a valuable contribution to student life at the university. Through a program of athletics, community dinners, social activities, student counselling, and student government, residents in the college and associate members participate in a vital and enriching community experience. Twenty students each term are offered the "Living in French" experience.

Residence 1989-90

Student Village I and II $2 101 (single), $1 955 (double)
Conrad Grebel College $1 955 (double)
Renison College $1 883 (single), $1 840 (double)
St. Jerome's College $1 820 (double), $2 065 (semi-private)
Notre Dame College $1 925 (single) $1 765 (double) (no meals Saturdays)
St. Paul's College (double) approximately $1 836

The above fees are for a four-month academic term. All rates include meals.

Tuition Fees

The following possible total undergraduate fees for Canadian citizens and permanent residents are for a four-month academic term, including incidental fees.

Architecture – year one $989.63; upper year co-op $1 317.94
Arts regular and accountancy studies regular $919.63; accountancy studies PAS* $1 099.63; arts co-op and accountancy studies co-op $1 247.94
Engineering $1 326.44
Environmental studies regular $919.63; co-op $1 247.94
Human kinetics and leisure studies regular $917.63; co-op $1 245.94
Independent studies $914.63
Mathematics
  regular $919.63
  co-op $1 247.94
Optometry $993.63
Science regular $923.63; co-op $1 251.94

Further Information

Inquiries concerning admission requirements and student awards should be directed to

Ms. Norma S. Walker
Director of Admissions and Student Awards
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 2265

Director of Secondary School Liaison
Mr. Stephen J. Little
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 6050

To visit the campus, contact
Ms. Gail Ruetz
Visitors Reception Centre
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 3614

University of Western Ontario

London

President: K.G. Pedersen

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	19 962	1 986
Part-time	5 815	685

Faculties, Schools, and Institutes

Faculty of Applied Health Sciences
Faculty of Arts
Faculty of Dentistry
Faculty of Education
Faculty of Engineering Science
Faculty of Graduate Studies
Faculty of Law
Faculty of Medicine
Faculty of Music
Faculty of Nursing
Faculty of Part-Time and Continuing Education
Faculty of Physical Education
Faculty of Science
Faculty of Social Science
Graduate School of Journalism
School of Business Administration
School of Library and Information Science

Affiliated Colleges

Brescia (Roman Catholic), Huron (Anglican), and King's (Roman Catholic).

General Admission Requirements

1)Enrolment in first year is limited, and admission to each program at Western is competitive.
2) Western will accept first-year students up to its maximum capacity. Applicants presenting the OSSD must include a minimum of six OACs. Applicants seeking admission from Grade 13 require a minimum of six Grade 13 credits approved by the Ministry of Education in accordance with Circular H.S.1 and the university. During the transition period to the new OSSD, the OSSHGD and OSSD will normally be given equal consideration for admission purposes. The university will also accept a combination of OAC and Grade 13 credits for admission consideration.
3) Early provisional offers of admission are based on the applicant's OAC or Grade 13 interim average.
4) The applicant must provide evidence of proficiency in English if English is not the first language. The university reserves the right to deny admission to applicants who cannot provide proof of English proficiency, regardless of academic qualifications.
5) An offer of admission will be withdrawn if the student's final average is less than 60%.

Subject Area Requirements

In addition to the general requirements, the following specific OAC or Grade 13 courses are required or recommended for entry to particular first-year programs. (For programs not listed below, check under the specific program listing for admission requirements.)

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*The Professionally Accredited Stream (PAS) of this program includes an internship fee of $167 per term.

Arts
English and a second language are strongly recommended. Specific programs may have their own admission requirements (OAC or Grade 13).

Physical education
For applicants presenting the OSSD, OAC biology is recommended. OSSD Grade 12 mathematics (preferably advanced level) or an OAC mathematics and OSSD Grade 12 physics at the advanced level or OAC physics are strongly recommended. For applicants presenting the OSSHGD, Grade 13 biology is recommended; Grade 12 or 13 mathematics and Grade 11 or 13 physics are strongly recommended. For the four-year program, if Grade 13 or OAC biology is not taken then a biology course must be included in first year.

Science
For applicants presenting the OSSD, OAC calculus and OAC algebra and geometry are required. For applicants presenting the OSSHGD, Grade 13 calculus and Grade 13 functions and relations are required.

Social science
OAC or Grade 13 English is strongly recommended, and a second language is valuable. Students interested in economics, geography, psychology, and sociology are strongly urged to complete at least two credits in mathematics, including calculus, and to explore computer science. OAC algebra and geometry or Grade 13 calculus and functions and relations or OAC calculus are required for entry into any 020-level calculus course.

Visual arts
Languages other than English are strongly recommended for those concentrating in art history and criticism (OAC or Grade 13).

Limited Enrolment
The following upper-year programs have limited enrolment: business administration, dentistry, law, medicine, post-R.N. nursing, occupational therapy, physical therapy, social work.

To meet its educational objectives while maintaining an appropriate university environment for incoming students, Western's senate has established an enrolment ceiling of 4 000 for entering full-time first-year students. Space in each program is limited, admission each year is competitive, and the minimum admission average may vary each year.

All first-year programs have limited enrolment and are divided into the following groups:

Program	**Spaces**
Arts (incl. Visual Arts)	1 830
Physical Education	(incl)
Social Science	(incl)
Admin/Comm Studies	325
Engineering	275
Music	150
Nursing	60
Science	1 360

In addition the affiliated colleges have the following enrolment ceilings for entering full-time first-year students:

Brescia College	250
Huron College	250
King's College	550

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general
Available in: biology, biology and chemistry (combined).

Four-year honours
Available in: biology, cell biology, ecology and evolution, plant sciences, zoology.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

Education/Physical Education/Recreation

• Bachelor of Arts

Three-year general/four-year honours
Available in: physical education.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Physical education".

• Bachelor of Education

One-year program.

Admission requirements
Applicant must have a university degree. Admission requirements are under review; consult the Faculty of Education for further details.

Engineering and Applied Sciences

• Bachelor of Engineering Science
Four years beyond senior matriculation. Specialization chemical and biochemical (combined), civil, electrical, materials, mechanical engineering.

Admission requirements
For applicants presenting the OSSD, OAC calculus, OAC algebra and geometry, OAC chemistry, OAC physics, and OAC English 1 are required. For applicants presenting the OSSHGD, six Grade 13 credits including calculus, functions and relations, and two credits from algebra, chemistry, and physics. It is strongly recommended that the sixth credit be a subject that requires literary skills, such as English, history, or geography. See also *General Admission Requirements.*

Fine and Applied Arts

• Bachelor of Arts

Three-year general
Available in: film (arts), music, visual arts.

Four-year honours
Available in: art history and criticism (visual arts), English and drama (arts), music, visual arts.

Admission requirements
Arts – see *Subject Area Requirements*, "Arts".
Dance – see *Subject Area Requirements*, "Physical education".
Music – a satisfactory audition and interview are required.
Visual arts – see *Subject Area Requirements*, "Visual arts".
See also *General Admission Requirements* for general requirements for all programs.

• Bachelor of Fine Arts

Four-year honours
Available in: studio arts.

Admission requirements
See *General Admission Requirements*, and *Subject Area Requirements*, "Visual arts".

• Bachelor of Music

Four-year honours
Available in: music education, music history, performance (any standard orchestral or band instrument, piano, organ, harpsichord, harp, or voice), theory and composition (combined).

• Bachelor of Musical Arts

Three-year general
Available in: music education, performance.

Note: The Faculty of Music also offers a one-year and a three-year Artist Diploma in Performance. With the exception of the Artist Diploma program, all programs have a common first year, with specialization beginning in second year.

Admission requirements
a) Six OACs or six Grade 13 credits, one of which may be Grade 13 music or the equivalent conservatory certificates (Grade IX vocal or instrumental with Grade III theory).
b) Recommendation of the Faculty of Music, on the basis of a satisfactory audition on the principal instrument (any standard orchestral or band instrument, piano, organ, harpsichord, harp, or voice). Students are expected to demonstrate a proficiency in their principal instrument or voice, according to minimum standards.

For the three-year Artist Diploma program the audition should demonstrate a performance level of at least a Conservatory Grade X standard, and show evidence of exceptional performance ability before a jury.
c) An informal interview, for which no special preparation is necessary.
d) Piano requirement (for those whose principal instrument is not piano, organ, or harpsichord) of at least the Grade VI conservatory level is strongly recommended before entrance, and is required for admission to the Bachelor of Music (honours) program. Otherwise-successful applicants who cannot meet this requirement must satisfy it prior to entry into second year. Students requiring instruction must make their own arrangements at their own expense.

The Faculty of Music also offers a one-year artist diploma in performance for students who wish to concentrate on the study of applied music in lieu of, prior to, or following a course of study leading to an academic degree. Applicants must demonstrate a performance level of at least a conservatory Grade X standard, and show evidence of exceptional performance ability before a jury.

Note: Applicants should request detailed information about audition requirements from the admissions officer of the Faculty of Music.

Health Professions and Medical Sciences

• Bachelor of Science

Four-year honours

Available in: biochemistry, biophysics, genetics, history of science, microbiology and immunology (combined), pharmacology and toxicology (combined), physiology, physiology and psychology (combined).

Admission requirements

See *General Admission Requirements* and *Subject Area Requirements*, "Science".

• Bachelor of Science in Nursing

Three-year program (for registered nurses)

Four-year program

The four-year program qualifies graduates to apply for registration with the College of Nurses of Ontario.

Admission requirements

Applicants presenting the OSSD require at least 60% in each of OAC chemistry and biology, and OSSD Grade 12 mathematics at the advanced level. Applicants from Ontario Grade 13 require six Grade 13 credits, which must include at least 60% in each of Grade 13 chemistry and biology, and Grade 12 mathematics. Grade 13 mathematics is recommended.

• Doctor of Dental Surgery

Applicants must be Canadian citizens or permanent residents. Students who are in or who have successfully completed a second-year program at an Ontario university, or an equivalent second year at another university, provided that the program has included a minimum of four honours courses or equivalent (as interpreted by Western) within the first ten courses completed, are eligible to apply for admission to the first year of the four-year program in the Faculty of Dentistry. All applicants must have successfully completed one full laboratory course in each of biology, chemistry, physics, and organic chemistry. The Dental Aptitude Test is also required.

One position is available for a student supported by the Canadian International Development Agency or similar sponsor.

• Doctor of Medicine

Requirements for admission to the Doctor of Medicine program

Admission to the first year of the four-year program in the Faculty of Medicine is based on successful completion of a second-year program at a recognized university, provided that the program has included a minimum of four honours courses or the equivalent (as interpreted by Western) within the first ten courses (five in each year) successfully completed. All applicants must have successfully completed one full laboratory course in each of biology, chemistry, and physics, have demonstrated competence in organic chemistry to the level of the first full course in organic chemistry offered at Western, and have obtained credit for at least two full courses from the Faculties of Arts and/or Social Science, one of which must be a course in literature (English) or history if the applicant does not have OAC I or Ontario Grade 13 or equivalent English.

Note: These admission requirements are under review. Individuals planning to apply in future years should ensure that their information is current.

Applications will not be accepted from applicants who are not Canadian citizens or permanent residents. (Two positions may be available for students supported by the Canadian International Development Agency or similar sponsor.)

• Bachelor of Science in Occupational Therapy (given through the Faculty of Applied Health Sciences)

Four years

Enrolment is limited. Degree granted: B.Sc.(O.T.).

Admission requirements

Applicants presenting the OSSD must have OAC biology. OAC calculus and OAC algebra and geometry are strongly recommended. For applicants presenting the OSSHGD, Grade 13 biology is required. Grade 13 calculus and functions and relations are recommended. Preference is given to Canadian citizens or permanent residents. Entry into this program occurs in the second year of university, and is based on achievement in a first-year program that includes specified prerequisite courses. During this year, students are required to take courses in psychology, sociology, and biology; they must also select one course from applied mathematics, chemistry, computer science, physics, or mathematics. See also *General Admission Requirements.*

• Bachelor of Science in Physical Therapy (given through the Faculty of Applied Health Sciences)

Four years

Enrolment is limited. Degree granted: B.Sc.(P.T.).

Admission requirements

OAC calculus and OAC algebra and geometry are required. For applicants presenting the OSSHGD, Grade 13 calculus and Grade 13 functions and relations are required. Entry into this program occurs in the second year of university and is based on enrolment in a first-year program that includes specified prerequisite courses. During this year students must take courses in biology, chemistry, physics, and applied mathematics or mathematics, as well as one course in either psychology, sociology, or anthropology. See also *General Admission Requirements.*

Humanities and Related Courses

• Bachelor of Arts

Three-year general

Available in: classical studies, English, film, French, German, Greek, Latin, philosophy, Russian, Spanish, western literature and civilization, women's studies.

Four-year honours

Available in: classical studies, classics, English and drama (combined), English language and literature, French language and literature, German language and literature, Greek and Latin (combined), Latin, philosophy, Russian, Spanish language and literature, women's studies (combined with another subject). All these subjects may be combined with most areas of study in the Faculty of Social Science, and philosophy may also be combined with the history of science or mathematices from the Faculty of Science.

Admission requirements

See *General Admission Requirements* and *Subject Area Requirements*, "Arts".

• Certificat de Francais Pratique

Admission requirements

Applicants must have OAC/Grade 13 French or the practical equivalent. A placement test may be required. Applicants lacking OAC/Grade 13 French or practical equivalent may take French 002 and/or French 010 at the university to qualify for admission to the certificate program. See *General Admission Requirements* and *Subject Area Requirements*, "Arts".

Mathematical and Physical Sciences

• Bachelor of Arts (given through the Faculty of Science)

Three-year general
Available in: computer science, geology, mathematics, statistics.

Four-year honours
Available in: actuarial science, actuarial science with economics, actuarial science and mathematics (combined), history of science and history, history of science and philosophy, mathematics, mathematics with economics, mathematics and statistics (combined), statistics, statistics with economics.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

• Bachelor of Science

Three-year general
Available in: applied mathematics, applied mathematics and computer science (combined), chemistry, chemistry and biology (combined), chemistry and geology (combined), computer science, geology, geophysics, mathematics, mathematics and computer science (combined), mathematics and statistics (combined), physics, physiology and computer science (combined), statistics, statistics and computer science (combined).

Four-year honours
Available in: actuarial science, actuarial science and computer science (combined), actuarial science and mathematics (combined), applied mathematics, applied mathematics and computer science (combined), astronomy, astronomy and geophysics (combined), chemistry, computer science, computer science with economics, computer science with mathematics, computer science with philosophy, computer science and physiology (combined), computer science with psychology, computer science and statistics (combined), geology, geophysics, mathematics, mathematics and computer science (combined), mathematics with computer science, mathematics and statistics (combined), physics, physics with computer science, statistics.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

Social Sciences and Related Courses

• Bachelor of Arts (given through the Faculty of Social Science)

Three-year general
Available in: administrative and commercial studies (ACS), anthropology, anthropology (linguistics specialization), economics, geography, history, political science, psychology, sociology, womens' studies.

Admission requirements
Along with the specific requirements listed below, see *General Admission Requirements*.

ACS – For applicants presenting the OSSD, OAC English and OAC calculus and either OAC algebra and geometry or OAC finite mathematics are required. For applicants presenting the OSSHGD, Grade 13 English and Grade 13 calculus and either Grade 13 functions and relations or Grade 13 algebra are required.

All other programs – see *Subject Area Requirements*, "Social science".

Four-year honours
Available in: anthropology, anthropology (linguistics specialization), anthropology (linguistics specialization) and psychology, economics, economics with actuarial science option, economics with geography option, economics with mathematics option, economics with statistics option, geography, geography (resources conservation), geography (urban development), geography and geology, geography and Spanish, geography with option, history, history and history of science (combined), political science, political science with French, psychology, psychology and philosophy, psychology and physiology (combined), sociology, women's studies (combined honours only), and combinations of the above. Most of these subjects may also be combined with areas of study in the Faculty of Arts in a combined honours program.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Social science".

• Bachelor of Science (given through the Faculty of Social Science)

Four-year honours
Available in: geography, geography and geology, psychology.

Admission requirements:
See *General Admission Requirements* and *Subject Area Requirements*, "Social Science".

• Bachelor of Arts (Business Administration)

Students seeking admission to the program in honours business administration may apply after the successful completion of at least ten courses of university study. Extracurricular activities are considered, as well as academic performance. The following courses or their equivalents are required: one full introductory university applied mathematics, computer science, or mathematics; introductory economics; business 257 (a second-year accounting course). One OAC or Ontario Grade 13 mathematics (or university equivalent) is also required. This program is given through the School of Business Administration.

• Bachelor of Laws

Three years following the successful completion of at least two full years beyond OSSD/Ontario Grade 13 in a recognized university. A three-year degree is recommended.

• Bachelor of Science (Home Economics) (given through the Faculty of Science and Brescia College)

Three-year general
Available in: clothing, textiles and design, comprehensive, foods and nutrition.

Four-year honours
Available in: clothing, textiles and design, comprehensive (teaching and related fields), foods and nutrition (specializations in human nutrition, general dietetics, food service management, community nutrition).

Admission requirements
OSSD applicants: OSSD Grade 12 mathematics (preferably advanced level) required, OAC English recommended. OAC biology and chemistry required for comprehensive and foods and nutrition programs. For clothing, textiles, and design program, OSSD Grade 11 advanced chemistry and one of OAC biology, chemistry, or physics required. OAC biology and chemistry are both recommended.OSSHGD applicants: Grade 12 mathematics required, Grade 13 English recommended for all programs. Grade 13 biology and chemistry required for comprehensive and foods and nutrition programs. Grade 12 chemistry and one of Grade 13 biology, chemistry, or physics required for clothing, textiles, and design program. Grade 13 biology and chemistry both recommended.

• Bachelor of Social Work (given through King's College)

Four-year honours
Admission to the social work program occurs in third year after completion of not less than ten full-course equivalents of university study. The application deadline is February 1 of the calendar year in which admission is sought. Enrolment is limited. The ten full-course equivalents must include: social work 020 and social work 204, with a minimum of 70% in each; social work 205 (or equivalent), with a minimum of 60%; at least three full-course equivalents from social science (psychology, sociology, political science, history, economics, anthropology, etc.); one full-course equivalent from arts (English, philosophy, French, etc.). The arts and social science courses must be completed with an overall average of 70% and a mark of at least 60% in each course; and second year must be completed with an overall average of 70%.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Arts", "Science", or "Social Science".

Faculty of Part-time and Continuing Education

Through the Faculty of Part-Time and Continuing Education's Trois-Pistoles French Immersion School, it is possible for secondary school students graduating in January to take a first-year French course starting in February.

For further details contact:
Trois-Pistoles French Immersion School
Room 219, University College
University of Western Ontario
London, Ontario
N6A 3K7
Telephone: (519) 661-3637.

Further Information

For additional information on admission, programs, the pre-admission academic counselling program, or on visiting Western, please contact
Director, Liaison Services
Stevenson-Lawson Building, Room 151
University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2026

Associate Director, Admissions and Academic Records
Stevenson-Lawson Building, Room 165
University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2150

For information and application forms for student awards and loans, write to
Director of Student Awards
Somerville House, Room 107
University of Western Ontario
London, Ontario N6A 3K7
Telephone (519) 661-3032

Residence

The university provides accommodation for approximately 30% of the non-London student enrolment through the residences for single and married students. Approximately 70% of the beds in the "traditional-style" residences are reserved for first-year students. There is also a 550-unit apartment complex for single students, and a 400-unit apartment and townhouse family housing complex. First-year and senior-year applicants who are not attending Western will automatically be sent an application for the "traditional-style" residences if they indicate a requirement for residence on their academic application form. Information may be obtained by writing directly to
The Manager
Residence Admissions Office
Room 126, Somerville House
University of Western Ontario
London, Ontario N6A 3K7

Note: The Off-Campus Housing Service is located in Room 126, Somerville House, and must be visited in person.

Westminster College

Westminster College is a United Church of Canada sponsored residential college for 238 students. For information please write to
Mr. Michael Ramsay
Director of Residence
Westminster College
361 Windermere Rd.
London, Ontario N6G 2K3

Tuition Fees 1989-90

(including incidental fees)
Faculties of Applied Health Sciences, Arts, Science, Social Science, Business Administration, Education, Physical Education, Nursing, Law, Music $1 745.10
Faculty of Engineering $1 874.10
Faculty of Dentistry
(first year including dental kit fee) $5 907.10
Faculty of Medicine $2 157.10

These fees include a non-academic charge for the University Community Centre, Recreation and Athletic Building, the University Students' Council, athletics, and health services.

Tuition fees for students on student visas

First-year students, excluding those programs listed below $5 949.10
First-year engineering, dentistry, education, home economics, medicine (M.D.), nursing $9 554.10

Brescia College

Brescia College, an affiliate of the University of Western Ontario under Roman Catholic auspices, is the only university-level women's college in Canada. Brescia has an enrolment of 800 students, and offers to students of all nationalities and religious faiths degree programs in arts, social science, administrative and commercial studies, physical education, and home economics. All classes are co-educational. Any program at Brescia may be supplemented with other courses offered at Western. Admission requirements are the same as at Western, although admission averages may differ. Brescia offers residence accommodation for 174 women and has a generous entrance scholarship program.

For further information please contact
Mrs. M. Hawkins
Registrar
Brescia College
1285 Western Rd.
London, Ontario N6G 1H2
Telephone (519) 432-8353

Huron College

Admission requirements

A minimum of six OACs or six Grade 13 credits with an average not less than 75%, which must include English (with a minimum mark of 70%); one course from French, a foreign language, or mathematics; two of biology, chemistry, English, French, foreign languages, geography, history, mathematics, music, physics; courses from at least four different subject areas. Possession of the minimum requirements does not guarantee admission to the college.

For further information please contact
Miss J. Catherine Ridley
Registrar
Huron College
1349 Western Rd.
London, Ontario N6G 1H3
Telephone (519) 438-7224

King's College

King's college is a co-educational liberal arts Catholic college affiliated with the University of Western Ontario. The largest of the affiliates, with a full-time enrolment of 1550, King's offers students of all faiths undergraduate programs in the arts, social sciences, physical education, and social work. Admission requirements are the same as at Western, although admission averages may differ. King's has a residence and scholarship program.

For further information please contact
M. Mason
Registrar
King's College
266 Epworth Ave.
London, Ontario N6A 2M3
Telephone (519) 433-3491

Wilfrid Laurier University

Waterloo

President: Dr. John A. Weir

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	4 958	382
Part-time	2 801	382

Faculties, Schools, and Institutes

Faculty of Arts and Science
Faculty of Graduate Studies
Faculty of Music
Faculty of Social Work
School of Business and Economics
Waterloo Lutheran Seminary

General Admission Requirements

Admission from Ontario secondary schools to the university will be based on the following criteria:
a) eligibility to graduate with the OSSD and satisfactory standing in six OACs, including the specific program requirements outlined after each program listing, or Grade 13 subjects sufficient to qualify the applicant for the OSSHGD; specific required subjects will be the same as specified for the OACs unless otherwise noted. the admission average will be based on the OAC/Grade 13 subjects. Additional guidelines are offered in the admission section of the undergraduate calendar;
b) an academic standing based on the applicant's record of the last two years;
c) a recommendation from the secondary school principal.

Bachelor of Arts
A three-year general program (15 courses) and a four-year honours program (20 to 24 courses) are available. All programs require OAC/Grade 13 English. For the honours program, applicants must have the minimum subject standing(s) specified by the department in which they wish to pursue honours studies. Although a minimum OAC/Grade 13 average of 60% is required for general programs and 65% is required for honours programs, a higher average may be required for admission to programs in which the demand for places exceeds availability.

Bachelor of Science
A three-year general program (15 courses) and a four-year honours program (20 to 22 courses) are available. All programs require OAC/Grade 13 English. Requirements for admission to the general science programs are two mathematics (OAC/Grade 13 calculus and either OAC algebra and geometry, Grade 13 algebra, or Grade 13 functions and relations), any two of OAC/Grade 13 biology, chemistry, or physics, and OAC/Grade 13 English. Students who do not satisfy all of the above requirements but who do have a good overall academic standing may be eligible for admission. Admission will be at the discretion of the Admissions Committee. Requirements for admission to the honours science programs are two mathematics (OAC/Grade 13 calculus and either OAC algebra and geometry or Grade 13 algebra or Grade 13 functions and relations), two of OAC/Grade 13 biology, physics, or chemistry, and OAC/Grade 13 English. Note: The applicant must possess the minimum subject standing(s) specified by the department in which he or she wishes to pursue honours studies. Double honours programs in chemistry and biology and in mathematics and biology require two mathematics, one of which must be calculus, chemistry, and one of biology or physics for both programs. Requirements for admission to the honours computing and computer electronics are two mathematics (OAC/Grade 13 calculus and either OAC algebra and geometry or Grade 13 functions and relations), and OAC/Grade 13 physics. Chemistry is also recommended.

Agricultural and Biological Sciences

• Bachelor of Arts

Three-year general
Available in: biology (available as a second major only).

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: biology.

Four-year honours
Available in: biology, biology and chemistry (combined), biology and mathematics (combined), biology with possible concentration in ecology, taxonomy, general botany, general zoology, pre-medicine, or pre-dentistry.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/Recreation

• Bachelor of Arts

Three-year general
Available in: physical education, physical education: coaching option (as a second major).

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Fine and Applied Arts

• Bachelor of Arts

Three-year general
Available in: fine arts, music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts". Applicants to the General Arts, music major program must have an audition/interview with the Faculty of Music. For details, see below under Bachelor of Music honours program.

• Bachelor of Music

Honours program
Four years (22 courses and participation in at least one choir or ensemble each year). Students may follow the honours B.Mus. degree without specialization or they may choose to specialize in performance, baroque music, church music, theory, history, composition, or music education. Courses are offered in theory, history, music education, and performance (instruction in all instruments and voice is offered).

Admission requirements
For the B.Mus. honours program a minimum OAC/Grade 13 average of 60% is required. Additional qualifications are required:
a) for all prospective B.Mus. students: music 115 or its equivalent (Grade 2 conservatory theory) and Grade 6 level piano are required. Students who do not have Grade 6 piano or its equivalent on admission must meet the Faculty of Music requirement in piano proficiency (approximately equivalent to Grade 6) before being admitted to second year of the degree program.
b) for prospective piano and organ students: a minimum level of Grade 9 conservatory level piano or its equivalent is required.
c) for prospective students in voice or instruments other than organ or piano: there is no required grade, although Grade 8 conservatory level may be taken as a guide to the minimum level.

All prospective students must have an audition-interview with the faculty, to be arranged by appointment by April 30.

The applicant will be required to take a musical aptitude test and a written theory test and to perform two compositions in contrasting styles in his or her own performance medium. In addition, the applicant will be given sight-reading and ear tests and a written theory placement test. All documentary evidence of the applicant's musical background and examination results should be sent to the office of the registrar before this interview. Late applicants will be considered if space permits.

Practicum program
The practicum program provides an opportunity for students to obtain a higher standard of performance, as well as practical experience, by involving themselves in projects such as performance, teaching, church music, administration, and music publishing. Students undertaking the practicum study complete three terms a year. In this manner, students may take advantage of full-time jobs when they are normally available, in the fall.

• Bachelor of Music Therapy

Honours program
The Honours Bachelor of Music Therapy is a four-year degree program beyond Ontario Grade 13 or equivalent standing. It prepares students for professional work in music therapy. In order to apply for accreditation by the Canadian Association of Music Therapy, graduates of the program will have to have at least six months' satisfactory professional experience, normally in an internship, beyond the degree. The program consists of 23 two-term courses, of which at least seven must be in psychology and sociology, eleven in music, and three-and-one-half in music therapy. Selection for admission to the B.Mus.Th. program is made by the Faculty of Music Admissions Committee on a competitive basis at the conclusion of year 2 of the honours music program. Students planning to complete a B.Mus.Th. degree should apply for entry to the B.Mus. program and select courses in years1 and 2 in accordance with guidelines offered by the Faculty of Music.

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: archaeology, classics (Greek and Latin), communications, English, film studies (second major only), fine arts, French, German, philosophy, religion and culture, Spanish.

Four-year honours
Available in: archaeology, classical studies, English language and literature, French, German, Greek, humanities studies, Latin, philosophy, religion and culture, Spanish.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general
Available in: mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: chemistry, computing, mathematics, physics and physical geography.

Four-year honours
Available in: computing and computer electronics, chemistry, chemistry and biology (combined), geography, mathematics, mathematics and biology (combined).

The aim of the computing and computer electronics program is to help students develop extensive programming abilities and acquire an in-depth understanding of computer hardware, microprocessors, microelectronics, and digital systems.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: anthropology, Canadian studies, communication studies, economics, geography, history, political science, psychology, sociology, Third World studies, and urban studies.

Four-year honours
Available in: anthropology, economics (see below), geography, history, political science, psychology, sociology.

• Bachelor of Arts – Honours Economics

Four-year honours (22 courses)
Students may combine honours economics with the finance and accounting option, co-operative option, administration option, mathematics option, or with another honours program.

Co-operative option
The undergraduate honours economics degree programs also offer a co-operative option. Co-op students begin their alternating sequence of work and study terms at the end of second year. Normally, a student would accumulate 12 months of practical work experience and graduate four months after students in the regular sequence. Students apply for the co-op option during their second year of studies.

Admission requirements
For the honours Bachelor of Arts in economics, students are required to have one OAC/Grade 13 mathematics course, selected from OAC/Grade 13 calculus or Grade 13 functions and relations (calculus is recommended), and one OAC/Grade 13 English course. An additional OAC/Grade 13 mathematics course is recommended.

• Bachelor of Business Administration

Four-year honours (22 courses)
Students may combine studies with options in biology, chemistry, economics, mathematics, or physics.

Co-operative option
The undergraduate business administration degree program also offers a co-operative option. Co-op students begin their alternating sequence of work and study terms at the end of the second year. Normally, a student would accumulate 12 months of practical work experience and graduate four months after students in the regular sequence. Students apply for the co-op option during their second year of studies.

Admission requirements
Students are required to have one OAC/Grade 13 mathematics course selected from OAC/Grade 13 calculus or Grade 13 functions and relations (calculus is recommended), and one OAC/Grade 13 English course. An additional OAC/Grade 13 mathematics course is recommended. The minimum OAC/Grade13 average is determined yearly by an admissions committee.

• Bachelor of Science

Four-year honours
Available in: psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Special Programs

• Internship Options
Internship options are available in honours anthropology, biology, computing and computer electronics, English, geography, history, mathematics, political science, psychology, and sociology. Students in the internship program gain practical work experience at the end of their second and third academic years. Enrolment is limited, and application to the program must be made in first year.

• Administration Option
Students registering in honours arts or science programs may wish to select the administration option. This option provides fundamental training in administration for arts or science students; seven specified business-related courses must be successfully completed within the 22-course honours degree program.

• Continuing Education
Telecollege offers university credit courses through television to students in the Waterloo area. Designed to bring the university directly to the homes of people unable to make regular trips to the campus, Telecollege features weekly introductory and senior courses in the humanities, social sciences, and business, monthly live phone-in programs, and frequent meetings between professors and students. Students will write essays and exams and are subject to all the requirements of regular students.

Residence 1989-90
Double rooms $2 050
Single rooms $2 235
Meal plans
On-campus residents (minimum) $1 520
Off-campus residents (minimum) $214

Tuition Fees 1989-90
(excluding incidental fees)
Full-time $1 516

Further Information
Inquiries about admission requirements should be directed to
Mr. B. George Granger
Associate Registrar (Admissions)
Ms. Christine Fazackerley
Admissions Officer
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2351

Inquiries about secondary school liaison and general university information should be directed to
Mr. Drew Ness
Manager, Liaison Services
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2385

Information about student awards and loans may be obtained from
Mrs. Pauline Delion
Director
Student Awards
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 4256

University of Windsor

Windsor

President: Dr. R.W. Ianni

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	8 986	650
Part-time	4 944	291

Faculties, Schools, and Institutes
Faculty of Arts
Faculty of Business Administration
Faculty of Education
Faculty of Engineering
Faculty of Graduate Studies
Faculty of Human Kinetics
Faculty of Law
Faculty of Science
Faculty of Social Science
School of Computer Science
School of Dramatic Art
School of Music
School of Nursing
School of Social Work
School of Visual Arts
Centre for Canadian–American Studies
Fluid Dynamics Research Institute
Great Lakes Institute
Industrial Research Institute
Innovation Centre
International Relations and Development Institute

General Admission Requirements
The OSSD and six OACs, or an OSSHGD, is required. The six OACs may be part of the 30 credits required for the OSSD. The subjects required vary according to the university program the student wishes to enter.

Early admission will be granted to fall 1991 applicants on the basis of:
a) the total secondary school performance;
b) the six OAC or Grade 13 term and interim marks; and
c) the principal's recommendation.

For all programs, because of limitations in enrolment, preference will be given to students with the best academic qualifications.

Bachelor of Arts
An OSSD and six OACs, or an OSSHGD, including English I, with a minimum overall average of 60% are required. For programs involving languages, the OAC/Grade 13 level of the appropriate language is normally required. For honours geography, one OAC mathematics is required. For general or honours mathematics, calculus and algebra and geometry are required.

Bachelor of Science
An OSSD and six OACs or OSSHGD with a minimum overall average of 60% are required. A minimum average of 60% in all science and mathematics subjects is required.

For majors in chemistry: English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% in all science and mathematics courses is required.
For majors in geology: English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% in all science and mathematics courses is required.
For majors in mathematics: English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% is required in al mathematical subjects. Students planning to pursue applied mathematics are advised to take a university entrance-level course in physics.
For majors in physics: English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% is required in all science and mathematics courses.
For majors in biology (including pre-medicine, pre-dentistry, pre-optometry): English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% is required in all science and mathematics courses.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general/four-year honours
Available in: biology, biotechnology.

Admission requirements
See *General Admission Requirements,* "Bachelor of Science".

Education/Physical Education/Recreatio

• Bachelor of Arts

Four-year honours
Available in: drama in education.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

• Bachelor of Education
Consecutive program, one year in length, to prepare the student for certification to teach in Ontario schools from kindergarten to OAC level.

Admission requirement
An approved degree from an accredited university.

• Bachelor of Human Kinetics
Four years with specialization in applied kinesiology, sports administration, or teaching and coaching. This is a co-operative program. Admission to the co-op stream after the first year of the regular honours program will be based on the final results of courses taken at the OAC/Grade 13 level, semester 1 results, and an interview with the co-op co-ordinator.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, with a minimum overall average of 60%. Biology and chemistry are recommended. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

Engineering

- **Bachelor of Applied Science**

Four years, including one common year followed by three years of specialization in one of: civil, electrical, environmental, geological, industrial, or mechanical engineering. Civil, environmental, industrial, mechanical, and mechanical (materials option) engineering are offered on a co-op basis. Admission to co-op is after the first year, based on marks for that year, secondary school marks, and an interview.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, calculus, algebra and geometry, chemistry, and physics, with a minimum average of 70%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

Fine and Applied Arts

- **Bachelor of Arts**

Three-year general
Available in: art history, drama, studio art.

Four-year honours
Available in: art history, drama, combined majors with music, communication studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Fine Arts**

Four years, with specialization in either acting, music theatre, scenic design, or visual arts.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, with a minimum overall average of 60%. For specialization in acting, a successful audition conducted by the School of Dramatic Art is required; for specialization in music theatre, successful auditions conducted by both the School of Dramatic Art and the School of Music are required; auditions are normally held on specific dates during the spring.

- **Bachelor of Music**

Four years, with specialization in either history and literature, school music, performance, or an individualized program.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, with a minimum overall average of 60% and an audition by the School of Music, consisting of performance and a written test on music theory.

- **Bachelor of Musical Arts**

Three years, with wide options in music course selection under the supervision of academic counsellors. Emphasis is on freedom of choice and on designing a program to suit the individual student's interest and background.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, with a minimum overall average of 60%. Applicants for this program must have some musical skills and will be required to demonstrate these skills through a diagnostic examination and performance audition.

Health Professions and Medical Sciences

- **Bachelor of Science**

Three-year general
Available in: pre-dentistry, pre-medicine, pre-optometry.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

- **Bachelor of Science in Nursing**

Four years from OAC/Grade 13; three years for candidates with professional nursing qualifications. A one-year diploma program in public health nursing is offered for professional nurses.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, chemistry, and biology. An average of at least 60% in all mathematics and science courses also is required. An interview with the School of Nursing may be required. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

Humanities and Related Courses

- **Bachelor of Arts**

Three-year general
Available in: Asian studies, classical civilization, comparative literature, English, French, German, Greek, Italian, Latin, multicultural studies, philosophy, religious studies, Russian, Spanish.

Four-year honours
Available in: Asian studies, Canadian studies, classical civilization, comparative literature, English, English literature and creative writing, French language and literature, German, Italian language and literature, Latin American studies, philosophy, religious studies, Spanish language and literature. Greek, Italian, Latin, and Russian may be studied with one of the above, or with another discipline to complete a combined honours degree.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

Three-year general/four-year honours
Available in: mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Computer Science**

Three-year general/four-year honours

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, calculus, and algebra and geometry, with a minimum overall average of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

- **Bachelor of Science**

Three-year general/four-year honours
Available in: biochemistry, chemistry, general science, geology, mathematics, mathematics and statistics, physics.

Social Sciences and Related Courses

- **Bachelor of Arts**

Three-year general
Available in: anthropology, communication studies, economics, family studies, geography, history, political science, psychology, sociology, urban studies.

Four-year honours
Available in: anthropology, Canadian studies, communication studies, criminology, economics, geography, geography in resource management, geography in urban studies, history, home economics, international relations, Latin-American studies, political science, political science in urban studies, psychology, public administration, sociology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Commerce**

Four years, with emphasis on business and economic affairs and specialization in accounting, administrative studies, business policy and strategy, finance, management science, and marketing.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I and calculus or algebra and geometry, with a minimum overall average of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

- **Bachelor of Commerce – Economics**

Four years, combining both the core of the Bachelor of Commerce program and the core of the Bachelor of Arts Economics program while allowing the student to use the options to gain additional training in economics.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, calculus, and algebra and geometry, with a minimum overall average of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

- **Bachelor of Laws**

Three years, following at least two years of university (a minimum of five years from OAC/Grade 13). Applications should be made to the Faculty of Law, University of Windsor.

- **Bachelor of Public Administration**

Four years from Grade 13/OAC, with required courses in business administration, economics, law, and political science.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, with a minimum overall average of 60%.

- **Bachelor of Social Work**

Four years from Grade 13.

Admission requirements
An OSSD and six OACs, or an OSSHGD, including English I, with a minimum overall average of 60%. Admission to the School of Social Work officially takes place in year 3. At this time, personal qualities and academic qualifications are considered.

Special Programs

- **Bachelor of Commerce for University Graduates**

A program consisting of 20 courses to supplement a non-business university degree. The program leads to the designation Bachelor of Commerce.

Admission requirements
Applicants must have a bachelor's degree from an accredited university, with a minimum overall average, including any failure, of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

- **Certificate Programs**

The University of Windsor offers certificate programs in the following: business administration, criminology and criminal justice, gerontology, informational publishing, Japanese studies, labour studies, organizational and career development, personnel management, public administration, religious studies, women's studies.

These 12-credit certificate programs are generally offered on a part-time basis. For further information, contact the Registrar's Office.

Residence
The University of Windsor and its affiliates own and/or operate residences for men and women, as well as operate a central food complex to service these residences. Residence fees vary with the plan selected.

Tuition Fees 1989-90
(including incidental fees)
Full-time students per semester *(Note: Fees for first-year international students are in brackets and are listed immediately after regular student fees):*
Arts, science (first year only) $865.50 ($2 895.50)
Business administration $868.75 ($2 898.75)
Education $867.75 ($4 651.75)
Engineering $940.00 ($4 659.50)
Computer science, dramatic arts, human kinetics, music, social work, visual arts $870.50 ($2 900.50)
Law $895.50 ($2 925.50)
Nursing $875.50 ($4 659.50)
Social sciences $868.00 ($2 898.00)

Further Information
Inquiries about admission requirements should be directed to
Orville Houser
Associate Registrar, Admissions and Records
University of Windsor
Windsor, Ontario N9B 3P4

Inquiries about student awards and loans should be directed to
Mrs. Marie Renaud
Office of Student Awards
University of Windsor
Windsor, Ontario N9B 3P4

For information on other aspects of the university and on university information programs for secondary schools contact
Mr. Joe Saso
Director of Secondary School Liaison
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 973-7014 (call collect within Ontario)

York University

Toronto

President: Harry W. Arthurs

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	20 080	1 821
Part-time	14 917	1 528

Faculties, Schools, and Institutes
Atkinson College
Centre for Atmospheric Chemistry
Centre for Continuing Education
Centre for International and Strategic Studies
Centre for Research in Experimental Space Science
Centre for Research on Environmental Quality
Centre for Research on Latin America and the Caribbean
Centre for the Study of Computers in Education
Faculty of Administrative Studies
Faculty of Arts
Faculty of Education
Faculty of Environmental Studies
Faculty of Fine Arts
Faculty of Graduate Studies
Faculty of Pure and Applied Science
Glendon College
Institute for Social Research
Joint Centre for Asia Pacific Studies
LaMarsh Research Program on Violence and Conflict Resolution
Osgoode Hall Law School of York University
Research Centre for Strategic Studies
Robarts Centre for Canadian Studies
York University Transportation Centre

General Admission Requirements
Applicants for admission to the university must have completed a full OAC/Grade 13 program certified by the school as appropriate in terms of content and achievement for a university degree program, with standing in all OAC/Grade 13 subjects. Students are required to present the OSSD including six OACs. All OACs acceptable to the Ministry of Education will be accepted by York University. See the individual faculty descriptions for specific admissions criteria.

Additional qualifications may be required by each faculty, and applicants should consult the Admissions Office for further information. Students are encouraged to provide the university with additional information they feel the university ought to consider. For example, York would be interested in hearing about any activities that reflect strong dedication and commitment or demonstrate unusual accomplishment, as well as about extenuating circumstances (such as illness or financial difficulties) that may have affected students' achievement in school.

Applicants who are Canadian citizens or permanent residents of Canada and who do not hold the OAC/Grade 13 or equivalent requirement in full may request special consideration if they are at least 21 years of age by the first day of classes of the academic session to which admission is being sought. While anyone meeting the age requirement may apply, candidates are expected to satisfy the university that they have a reasonable chance of success in university work and have had no recent unfavourable academic record.

Candidates are advised that holding the published admission requirements means only that they are eligible for selection. In the selection process, the university makes offers of admission to the highest academically qualified candidates. In assessing a candidate for admission, the university considers the overall academic record, the report of the high school, and the results of any additional tests (e.g., Scholastic Aptitute or English Proficiency) as may be required. Applicants to programs with limited enrolment must have academic qualifications considerably higher than the minimum standards.

Applicants residing in Ontario whose first language is not English and who have studied for four years or less in a Canadian secondary school will be required to write the York University Evaluation of English Proficiency. Information will be forwarded upon receipt of an application.

Bachelor of Arts
To be eligible for admission, Faculty of Arts applicants must achieve a minimum overall average of 70% in six OAC/Grade 13 credits. Students presenting the OSSD must include an OAC in English plus one additional OAC credit from the following categories: classical studies, *français*, French as a second language, geography, history, mathematics, a modern language. See *General Admission Requirements*, above.

The Faculty of Arts at the York campus offers programs of study leading to the Bachelor of Arts degree at the ordinary and honours levels, on a full- or part-time basis. Degrees may be taken in the traditional disciplines, in interdisciplinary (thematic) studies, and in individualized studies.

Students are introduced to the Faculty of Arts through a balance of disciplinary and interdisciplinary courses. Within the first seven courses (a normal full-time program consists of five courses per year), students examine two interdisciplinary areas: humanities or social science and natural science. (Students will also be required to take a further interdisciplinary course at the upper level). As well, students may take a college course (maximum 20 students per class), allowing for experience with the small seminar setting. Students may take up to three disciplinary courses in their first year and have the option of declaring a major subject either in the first or second year of study. Electives may be selected from courses offered by other faculties at York.

The Faculty of Arts offers ordinary (15 courses – normally three years) and honours (20 courses – normally four years) programs of study. Options for these programs are listed under specific subject areas.

In addition, interdisciplinary studies programs are offered in honours. These programs are also listed under specific subject areas.

In an ordinary program, students take five courses in their major and select their remaining courses in accordance with the requirements of the Faculty of Arts and their own interests.

In an honours program, students pursue their studies within one of the following five formats:
a) specialized honours – students specialize in one subject by taking at least nine courses in their major program;
b) honours (double major) – students elect to major in two subjects, taking seven courses in the first major and seven in the second;
c) honours – students take at least seven courses in one major subject;
d) honours (major/minor), students take at least seven courses in the major subject and five courses in the honours minor;
e) specialized honours: individualized studies – students take a course of study designed around a theme or problem that interests them. These programs are planned by the student in consultation with a faculty adviser.

Bachelor of Science
Applicants for admission to the honours and ordinary B.Sc. programs in the Faculty of Science must present six OAC/Grade 13 credits, including chemistry, physics, and two credits in mathematics at the OAC/Grade 13 level. Finite mathematics, while acceptable as one of the six OACs, cannot replace one of the recommended mathematics courses.

Both specialized honours programs (120 credits minimum) and ordinary programs (90 credits minimum) are offered. Options for these programs are listed under specific subject areas.

Combined honours programs (120 credits minimum), in which the student may choose to major in a combination of two subjects, are available.

An honours science program (120 credits minimum), without specialization, is also offered. Diplomas are offered in operations research, and certificates are offered in meteorology, coaching, advanced coaching, fitness assessment and exercise counselling.

Agricultural and Biological Sciences

• Bachelor of Science

Ordinary or honours
Available in: biology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/Recreation

• Bachelor of Arts or Bachelor of Science

Honours
Available in: physical education. Certificates are available in coaching, advanced coaching, fitness assessment and exercise counselling, and sports administration.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts" or "Bachelor of Science".

• Bachelor of Education

York's Faculty of Education offers a concurrent program in which students pursue their academic and professional studies simultaneously. Students co-register in the Faculty of Education and in the Faculty of Arts, Science, or Fine Arts, or in Atkinson College or Glendon College. In other words, students work toward a B.A., B.Sc., or B.F.A. degree while at the same time working toward a B.Ed. degree. With co-registration, an extra year is added to the normal length of the academic degree. Consequently, an ordinary degree (B.A./B.Ed., B.Sc./B.Ed., B.F.A./B.Ed.) takes four years; an honours degree takes five years. Further teacher training is not necessary upon graduation.

During the first year of academic study at York (or equivalent), students may apply to co-register in one of the following programs in the Faculty of Education: primary-junior, junior-intermediate, intermediate-senior.

Admission is based on university grade point average, interviews, education-related experience, reference letters, and a written admissions questionnaire.

Successful completion of any one of the combined B.A./B.Ed., B.Sc./B.Ed., or B.F.A./B.Ed. programs leads to recommendation for certification in Ontario as an elementary or secondary school teacher. York also offers a ten-month consecutive teacher education program for candidates who hold a recognized university degree.

Engineering and Applied Sciences

• Bachelor of Science

Ordinary or honours
Available in: applied computational and mathematical science.

Honours
Available in: earth and atmospheric science, space and communication sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Fine and Applied Arts

• Bachelor of Fine Arts and Bachelor of Arts in the Faculty of Fine Arts

The Faculty of Fine Arts offers a four-year honours program with specialized honours and general honours programs. Specialization occurs in the following areas:

Department of Dance – performance, choreography, notation, criticism, teaching, dance therapy, history;

Department of Film/Video – film and video production, film studies, historical and theoretical studies, screenwriting;

Program in Fine Arts Studies – general honours or creative writing;

Department of Music – jazz, performance, composition, electronic music, ethnomusicology, history, theory, classical and contemporary music, instrumentation, and arranging;

Department of Theatre – performance, production and design, drama studies, directing;

Department of Visual Arts – studio art (painting, sculpture, printmaking, design, drawing, graphics, interdisciplinary studio, photography), art history.

Evaluation procedure
In addition to the regular requirements for admission to the university, the Faculty of Fine Arts requires an evaluation of an applicant's suitability for any of its departments. The requirements for each department are detailed in the York University undergraduate calendar. It is the applicant's responsibility to make an appointment for evaluation. Applicants from Ontario who reside some distance from Toronto should note that the Faculty of Fine Arts holds auditions in selected cities across Canada and accepts evaluations by mail. Applicants will be advised of the locations and dates of these evaluations.

Requirements for admission to the Faculty of Fine Arts
Students may select any six OAC/Grade 13 subjects deemed acceptable by their school for the purpose of entrance to the university, with a minimum overall average of 70%; an OAC English is recommended. Applicants will also be required to offer appropriate evidence of aptitude or achievement by satisfying the evaluation procedure for the department to which application is intended.

Applicants of any age who do not hold the full OAC/Grade 13 or equivalent requirements may request special consideration if they can show evidence of high achievement in one or more of the several arts, and if they can satisfy the Senate Committee on Admissions and the Faculty of Fine Arts that they have a reasonable chance of success in both the academic and the professional portions of the university program of their choice.

Humanities and Related Courses

- **Bachelor of Arts**

Ordinary or honours
Available in: classical studies, English, French, German, Greek, history, humanities, Italian, Latin, linguistics, philosophy, Russian, Spanish.

Honours
Available in: creative writing.

Honours interdisciplinary programs
Available in: individualized studies, religious studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

- **Bachelor of Arts**

Ordinary or honours
Available in: computer science, mathematics, mathematics for commerce.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Science**

Ordinary or honours
Available in: chemistry, computer science, geography, mathematics, physics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

- **Bachelor of Arts**

Ordinary or honours
Available in: anthropology, economics, geography, political science, psychology, sociology.

Honours
Available in: economics and business, public policy and administration.

Honours interdisciplinary programs
Available in: African studies, Canadian studies, East Asian studies, health and society, Latin American and Caribbean studies, labour studies, law and society, mass communications, social and political thought, urban studies, and women's studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Business Administration in the Faculty of Administrative Studies**

A four-year honours undergraduate program. Students enter the program after two years of undergraduate study and complete their third and fourth years of study in the Faculty of Administrative Studies. Transfer to the Faculty of Administrative Studies may be from the Faculty of Arts, Faculty of Science, Glendon College, or another university.

Admission requirements
To enter the program, students must complete two years of university study beyond OAC/Grade 13 or the equivalent. Within these two years of study, students must complete one full-year university course in calculus, computer science, economics, and statistics.

- **Bachelor of Law at Osgoode Hall Law School**

Admission requirements
Candidates for this program must have successfully completed either three years of an approved university degree course following Grade 12 or two years of an approved university degree course following Grade 13, or have been awarded a degree in an approved program from a recognized university, and have satisfied all other requirements that may be prescribed. Candidates must submit a Law School Admissions Test score.

- **Bachelor of Science**

Ordinary or honours
Available in: psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Special Programs

- **Early Childhood Education – Joint Program York/Seneca**

Four years
Bachelor of Arts (York) and Diploma in Early Childhood Education (Seneca).

Admission requirements
Applicants must have ten full university courses, including introduction to psychology, developmental psychology, and at least one more half-course in psychology. They must have fulfilled the general educational requirements of York University, complete an admissions questionnaire, and attend an interview.

- **Rehabilitation Services – Joint Program York/Seneca**

Four years
Bachelor of Arts (York) and Diploma in Rehabilitation Services (Seneca).

Admission requirements
Applicants must have ten full university courses, including introduction to psychology, and meet the general educational requirements of York University. Students should also have experience working with persons with disabilities.

- **Part-Time Daytime Studies**

Each of the faculties, other than the Faculty of Administrative Studies and the Faculty of Law, offers the opportunity for students to pursue studies on a part-time daytime basis.

Applicants should request, from the Admissions Office, information regarding the regulations pertaining to part-time studies in each faculty.

- **Winter-Summer Session**

The Faculty of Arts, Glendon College, and the Faculty of Science offer, as an alternative, a winter-summer session for first-year students. Entering students may commence their studies in February and complete their first academic session the end of June. A full range of introductory courses is offered.

Call (416) 736-5000 for a winter/summer brochure.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

- **Atkinson College**

Atkinson College, the part-time evening faculty at York University, offers courses leading to four undergraduate degrees: Bachelor of Arts degree (both ordinary and honours), the Bachelor of Science degree (ordinary), the Bachelor of Administrative Studies (ordinary and honours), and the Bachelor of Social Work degree (honours). In addition to the customary arts program, there are programs in Canadian studies, fine arts/creative arts studies (music, theatre, film, visual arts), humanities, liberal studies (classical studies, communication studies, conservation and environmental studies, East Asian studies, individualized liberal studies, science, technology and society, social and political thought, and women's studies), social science, and urban studies. People who do not have an OSSHGD or OSSD but who are over 21 years of age may apply for admission to Atkinson College. The college operates on a course-credit, rather than yearly, system. In summer, courses are offered during the day as well as in the evening. Courses are the equivalent of regular daytime courses, although not necessarily identical to them, and are given mainly by the full-time Atkinson faculty. Classes are held on both the York and Glendon campuses of the university. For further information about Atkinson College contact:

Atkinson College
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5222

Residence 1989-90
Approximate fees (including meals)
Double rooms $3 424
Single rooms $3 768

Only a limited number of single rooms are available to first-year students.
Fees are subject to change without notice.

Tuition fees 1989-90
(excluding incidental fees)
Full-time Canadian and landed immigrant students $1 837
Part-time studies $367 per full-year course (Canadian and landed immigrant students)
Fees for full-time new international students are $5 901.
Tuition fees are subject to change without notice.

Further Information
Information and campus visits:
Liaison Office
Suite B,
West Office Building
Telephone (416) 736-5100

Inquiries about admission requirements should be addressed to

Mr. J.A.S. McNeil
Director of Admissions
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5100

For information about financial aid, please contact
Ms. Elizabeth Rudyk
Director of Financial Aid
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5006

Admissions/Liaison
Patti-Jo McLellan Shaw
Associate Director of Admissions/Liaison
Penny Bissett, Assistant Director, Secondary Schools Liaison
Sharon Harrison, On-Campus Co-ordinator
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5100

Glendon College
Toronto

Principal: Roseann Runte

Glendon College offers a bilingual (English-French) program emphasizing the liberal arts. Students at Glendon may study toward a Bachelor of Arts degree: The B.A. honours (20 courses) or the B.A. ordinary (15 courses). In addition to choosing the Bachelor of Arts degree available at Glendon, students interested in teaching may co-register (complete two degrees simultaneously) in the Faculty of Education, taking courses toward both the Bachelor of Arts (B.A.) and the Bachelor of Education (B.Ed.) degrees on the Glendon campus.

Glendon also offers students the preparatory courses required by York University's business school (Faculty of Administrative Studies) and the law faculty (Osgoode Hall Law School).

The college's commitment to bilingualism enables students to take courses in both English and French in all subject areas. Successful completion of a course in the student's second language at the second-year level is required for graduation from any Glendon program. Language training courses are available at all levels; students may come to Glendon with some previous language training, or fully bilingual, and find courses designed to develop their language skills. In addition, students are encouraged to take part in the bilingual, social and cultural life of the college.

Programs Offered

- **Bachelor of Arts (B.A.) – three or four years**

The college offers students a full range of programs in the humanities and social sciences. Interdisciplinary programs such as Canadian, international, or multidisciplinary studies allow students to design their own pattern of courses, using a variety of disciplines or approaches.

Glendon also offers a degree program in translation. Students interested in pursuing a B.A. honours degree in translation at Glendon must first complete a first year (five full courses or the equivalent) of general university studies. Only a limited number of students are accepted to this program, and an entrance examination takes place each April.

Glendon students may choose to do some courses outside the Glendon faculty, in various other faculties on the York campus. Students with high competence in French may apply to take the third year of a four-year program in a French-language university in Quebec or France.

Admission requirements
Applicants must complete six OAC/Grade 13 subjects deemed acceptable by their school for the purpose of entrance to the university. Those presenting the OSSD should include an OAC credit in English/French, *français*.

English-speaking applicants should have at least 60% in Grade 12 or 13/OAC French (or equivalent), but some places are available in French-language courses for which little or no previous preparation in French is required. Students who have no background in French or English will be required to take additional French- or English-language courses to fulfil Glendon's degree requirements.

Residences
Glendon College has two residences that accommodate about 400 students. Each residence is divided into houses; some houses are for men or women exclusively, while others are co-ed. Glendon can accommodate a percentage of first-year students in single rooms. Students wishing single-room accommodation must submit their application form and deposit by the end of June or early July.

Approximate residence fees 1989-90
(including meals)
Single room $3 808
Double room $3 464
Fees are subject to change without notice.

Visits and Further Information
The Glendon Liaison Office will arrange individual, class, or group tours of the college in English or in French, upon request. An appointment with an academic counsellor can be made to discuss course, program, or career choices.

For application forms or additional information please write or phone:
Julie Pârna-Steif, or Joanne Pesaro, or Maurice Héroux
Glendon College
2275 Bayview Ave.
Toronto, Ontario M4N 3M6
Telephone (416) 487-6710

Teacher Education

General information concerning courses offered and admission requirements appears below. For further information and application forms for admission, applicants should write to the faculty, school, or college of education of their choice.

- **How to Qualify as a Teacher for Ontario Schools**

Students wishing to prepare themselves for a teaching career may apply for admission to a faculty, school, or college of education if they have the necessary qualifications.

Teacher education programs for students who wish to qualify as teachers in English-language schools are offered in the faculties, schools, or colleges of education of Brock University, Lakehead University, Nipissing College (affiliated with Laurentian University), the University of Ottawa, Queen's University, the University of Toronto, the University of Western Ontario, the University of Windsor, and York University.

Teacher education programs for students who wish to qualify as teachers in French-language schools are offered at the University of Ottawa and the School of Education at Laurentian University.

Courses and Admission Requirements

Applicants for September 1991 admission to one-year programs leading to an Ontario Teacher's Certificate for English-language and French-language schools in Ontario will be required to submit evidence of successful completion of an approved university degree. In addition, applicants must meet the specific admission requirements of a faculty, college, or school of education. Applicants should write to the admissions officer at the teacher education institutions for further details concerning admission requirements and course offerings.

The teacher education institutions at Brock Univeristy, Laurentian University, Queen's University, and York University also offer a concurrent program. Students enrolled in these programs take their teacher education program, which leads to the Bachelor of Education degree, and their undergraduate degree simultaneously. Applicants to concurrent programs apply through the Ontario Universities' Application Centre.

Teachers of Technological Subjects

To become qualified to teach technological subjects, candidates must show evidence of at least Grade 12 or equivalent standing and approved, practical, wage-earning experience in a skilled trade directly related to the specialized subject field.

Detailed information regarding minimum admission qualifications, available courses, professional experience required, and course content is available from the following sources:

Chairman
Technical and Industrial Arts Department
Faculty of Education
University of Toronto
371 Bloor St. W.
Toronto, Ontario M5S 2R7

Associate Registrar
Faculty of Education
The University of Western Ontario
1137 Western Rd.
London, Ontario N6G 1G7

Co-ordinator of Technical Education
Faculty of Education
Queen's University
Kingston, Ontario K7L 3N6

For information on the summer program in the French language, contact
Director of Teacher Education
Faculty of Education
University of Ottawa
René-Lamoureux Hall
145 Jean Jacques Lusier
Ottawa, Ontario K1N 6N5

Teachers of Special Subjects

In addition to the basic academic and technological studies qualifications required to teach in elementary and secondary schools, certain subjects demand specialized knowledge, training, or experience. These include subjects such as English as a second language (ESL), French as a second language (FSL), guidance, special education, and librarianship. These qualifications are taken once the Ontario Teacher's certificate is held.

Qualifications to teach business studies, dramatic arts, family studies, industrial arts, music, physical and health education, and visual arts can be taken as part of the one-year program of teacher education, or as additional qualifications once the Ontario Teacher's Certificate is held. Information on additonal qualification courses is available from the teacher education institutions.

Fees

Tuition and other fees vary, depending on the institution. Consult the appropriate section in this publication or contact the institution concerned.

Financial Aid

Information about any financial assistance available to a teacher education candidate can be obtained from the Financial Aid Administrator of the university to which the student is applying.

Living Accommodation

Student teachers attending a university away from home can obtain from the housing bureau of the university a list of convenient boarding houses. For residence accommodation at university, students who are interested in living on campus should apply early. (See the introductory section, *Students' Costs*, for details.)

Application for Admission Procedure

Concurrent Programs

For admission to a concurrent program (an education program taken along with the first degree), apply through the Ontario Universities' Application Centre.

Consecutive Programs

Ontario universities offering teacher education in a consecutive program (a program taken after completion of the first degree) have a common application form that offers a candidate three choices of university on the same form; however, a candidate may submit only one application form. These forms may be obtained from any of the universities listed below. Application forms are also available from the Admissions Office at all of the other Ontario universities.

Brock: Office of the Registrar, Brock University, St. Catharines, Ontario L2S 3A1.

Lakehead: Assistant Registrar, Admissions, Lakehead University, Thunder Bay, Ontario P7B 5E1.

Laurentian: Admissions Officer, Laurentian University, Sudbury, Ontario P3E 2C6.

Nipissing: Office of the Registrar, Nipissing College, College Education Centre, Box 5002, North Bay, Ontario P1B 8L7.

Ottawa: Office of the Registrar, Admissions Section, University of Ottawa, 145 Jean Jacques Lusier, Ottawa, Ontario K1N 6N5; **or** Service du registraire, Section de l'admission, Université d'Ottawa, 145 Jean Jacques Lusier, Ottawa (Ontario) K1N 6N5.

Queen's: The Registrar, Faculty of Education, Queen's University, Kingston, Ontario K7L 3N6.

Toronto: The Registrar, Faculty of Education, University of Toronto, 371 Bloor St. W., Toronto, Ontario M5S 2R7.

Western: Student Services – Admissions, Faculty of Education, University of Western Ontario, 1137 Western Rd., London, Ontario N6G 1G7.

Windsor: Office of the Registrar, Faculty of Education, University of Windsor, 600 Third Concession Rd., Windsor, Ontario N9B 3P4.

York: Office of Student Programs, Faculty of Education, York University, 4700 Keele St., North York, Ontario M3J 1P3.

Non-affiliated and non-federated postsecondary institutions with statutory authority to grant theological or other degrees in Ontario

Baptist Bible College Canada and Theological Seminary
P.O. Box 752
Simcoe, Ontario
N3Y 4T2
Telephone: (519) 426-8421

Central Baptist Seminary and Bible College
95 Jonesville Crescent
Toronto, Ontario
M4A 1H3
Telephone: (416) 752-1976

Eastern Pentecostal Bible College
780 Argyle Street
Peterborough, Ontario
K9H 5T2
Telephone: (705) 748-9111

Emmanuel Bible College
100 Fergus Avenue
Kitchener, Ontario
N2A 2H2
Telephone: (519) 894-8900

Institute for Christian Studies
229 College Street
Toronto, Ontario
M5T 1R4
Telephone: (416) 979-2331

London Baptist Bible College and London Baptist Seminary
30 Grand Avenue
London, Ontario
N6C 1K8
Telephone: (519) 434-6801

Maimonides School for Jewish Studies
P.O. Box 6510
Station A
Toronto, Ontario
M5W 1X4
Telephone: (416) 961-1527

Ontario Bible College and Ontario Theological Seminary
25 Ballyconner Court
Willowdale, Ontario
M2M 4B3
Telephone: (416) 226-6380

Redeemer College
Ancaster, Ontario
L9G 3N6
Telephone: (416) 648-2131

Theological College of the Canadian Reformed Churches
110 West 27th Street
Hamilton, Ontario
L9C 5A1
Telephone: (416) 575-3688

Toronto Baptist Seminary and Bible College
130 Gerrard Street East
Toronto, Ontario
M5A 3T4
Telephone: (416) 925-3263

Great Lakes Bible College
4875 King Street East
Beamsville, Ontario
L0R 1B0
Telephone: (416) 563-5374

Centralia College of Agricultural Technology

Huron Park

Director: W.R. Allen

Centralia College, located 50 kilometres north of London, offers two-year postsecondary courses in agricultural business management, animal health technology, and food service management, as well as continuing education courses for farmers, agribusiness, food service, and animal health personnel.

Enrolment 1989-90

Diploma	170
Continuing Education	1 400

Admission Requirements
Diploma course applicants require an OSSD or equivalent, including successful completion of Grade 12 English at the general or advanced level. Additional requirements are noted in the following course descriptions. Candidates for certificate courses must be 17 years of age or older, have completed Grade 8 or the equivalent, and have been out of school for at least one full year. A personal interview is also required. Mature and international applicants will be assessed on an individual basis.

Diploma Courses
(September to April term)

- **Agricultural Business Management**
This course offers training to people intending to operate and manage their own or an employer's farm. Excellent job opportunities also exist in the agricultural supplies and services industry and in government. Course emphasis is placed on management of the agricultural businesses, especially farms. A full-year farm analysis project gives students extensive experience in analysing selected commercial farms in the area. Students may focus their study on areas of particular interest through the selection of elective subjects in second year. Preference is given to applicants who have commercial agricultural experience.

- **Animal Health Technology**
This course is designed to train animal health technicians to assist veterinarians in private practice. The study of farm, companion, and research animals is an important part of the curriculum. Practical experience for students is provided, both at the college and in the field, in co-operation with practising veterinarians and farmers in the surrounding area. The course is accredited by the Canadian Veterinary Medical Association. Preference will be given to applicants who have Grade 12 credits in chemistry, another science (biology preferred), mathematics, English, and two other subjects (all at the advanced level). A letter of reference, verifying a minimum of 40 hours of suitable work experience with a practising veterinarian, is required. Enrolment is limited, and preference is given to residents of Ontario. Applications are due February 1. Candidates who meet the admission requirements will be invited to the college for an interview.

- **Food Service Management**
This course is approved by the Ontario Dietetic Association, and graduates are eligible for immediate membership in the Canadian and Ontario Food Service Supervisors' Associations.

A combination of academic subjects and practical experience pertaining to food service management prepares students for challenging careers as supervisors or managers in the food industry. Students are required to gain a minimum of eight weeks of food service experience between the first and second years. Towards the end of the second year, students are required to complete six weeks of training at the supervisory level in a health-care institution or hospitality establishment, under the guidance of trained personnel.

Employment opportunities are currently expanding in health-care, institutional, and hospitality food service as employers recognize the need to hire graduates knowledgeable about the organization and function of the food industry.

For entry into the program, applicants should have credit in Grade 12 English and mathematics, and either Grade 12 chemistry or Grade 11 biology.

Residence 1989-90
Residence accommodation is available for up to 385 full-time diploma students in two modern dormitories. Accommodation and 14 meals per week costs approximately $1 200 for the college year.

Tuition Fees
Tuition per year $462 (Canadian students); $924 (international students).

The total cost per year, including tuition, residence, meals, books, and miscellaneous expenses, is between $2 400 and $3 100, depending on the diploma program.

Financial Assistance
Bursaries, scholarships, and other financial awards are offered by various organizations and municipalities. Students are also eligible for assistance from the Ontario Student Assistance Program.

Further Information
For further information, please contact
Director
Centralia College of Agricultural Technology
Huron Park, Ontario N0M 1Y0
Telephone (519) 228-6691

Kemptville College of Agricultural Technology

Kemptville

Principal: John D. Curtis

Postsecondary courses leading to diplomas in agricultural journalism, dairy cattle production and management, field crops and livestock production and management, ornamental horticultural production and management, and food service management are offered at the Kemptville College of Agricultural Technology.

Enrolment 1989-90

Total	222

Admission Requirements
The OSSD or equivalent is required, including successful completion of Grade 12 English and mathematics (general or advanced level). Consideration is given to mature students. Agricultural experience is recommended for all students registering in agriculture.

Diploma Courses
The academic year at Kemptville is divided into two semesters, and the programs are two years in length. Semesters begin in September and January, and each semester is a prerequisite for the next.

- **Dairy Cattle Production and Management**
This program concentrates on the needs of Ontario's dairy industry. It is strongly recommended for those students who are returning to a dairy enterprise or who wish employment in agri-business firms that service the dairy industry.

- **Field Crops and Livestock Production and Management**
The course material for this program in the junior year is similar to that of the dairy cattle program. In the senior year the emphasis is on non-dairy animals, particularly swine and beef cattle. This program is oriented towards students who are more interested in the cash crop and/or market livestock type of enterprise, either from the producer or service business viewpoint.

- **Ornamental Horticultural Production and Management**
Students in this program are introduced to principles of horticulture that apply primarily to horticultural crops, especially fruits and vegetables. Concepts of ornamental horticulture are introduced but are not a major part of the program.

- **Food Service Management**
This program, which may be completed in four semesters, concentrates on subject areas in the food service industry related to

the health care field. The course, approved by the Ontario Dietetic Association, qualifies graduates for immediate membership in the Canadian Food Service Supervisors' Association. Mature students may register for credit as full-time students or as part-time students taking individual subjects.

- **Agricultural Journalism**
This two-year program trains students for positions with newspapers and other media and for work as communications and public relations officers in the agricultural industry. Year 1 consists of concentration of agricultural courses, giving students a background that will enable them to provide an accurate analysis of agricultural problems. Year 2 of the program transfers into the print journalism program at Loyalist College of Applied Arts and Technology in Belleville.

- **Certificate Courses**
Agricultural welder fitter, farm equipment mechanic, dairy herdworker, farrier (horseshoeing), bulk tank milk grader, milk and cream grader, milk and cream tester, dairy plant worker (specialization in cheesemaking, buttermaking, ice cream making, or fluid milk processing), and level 1 equestrian coaching and riding development.

- **Apprenticeship Courses**
Farm equipment mechanics apprenticeship.

- **Community Programs**
A wide variety of courses, seminars, workshops, and conferences are offered in response to the needs of the agricultural and food industry. Further information may be obtained by contacting the Continuing Education Section at the college.

Living Accommodation
The Kemptville College of Agricultural Technology will provide accommodation for most full-time students wishing to live on campus.

Financial Assistance
A number of bursaries are offered by charitable organizations, municipalities, and individuals to deserving students. Special awards, scholarships, and prizes amounting to several thousands of dollars are generously donated by benefactors each year. Students may also apply for grant/loan assistance from the Ontario Student Assistance Program. For details see the section, *Financial Assistance for Students*.

Tuition Fees
Canadian students per semester $220
International students per semester $440
Room and meals, student activity fees, books, and miscellaneous expenses bring the total to about $875 to $1 000 per semester.

Further Information
Inquiries should be addressed to
Registrar
Kemptville College of Agricultural
Technology
Kemptville, Ontario K0G 1J0
Telephone (613) 258-8335

New Liskeard College of Agricultural Technology

New Liskeard

Principal: D. Beattie

The college is located in Northeastern Ontario at New Liskeard, 160 kilometres north of North Bay. New Liskeard is situated in the most intensive livestock and cash-crop farming area in Northern Ontario. The college has excellent educational and residence facilities. Extensive livestock and crop facilities on the college farms are used for practical training.

Enrolment 1989-90
Total 70

Admission Requirements
Diploma courses require the OSSD or equivalent for admission. English, mathematics, and science are desirable.

A certificate course is available to students who cannot meet the requirements for admission to the diploma programs. Applicants will be considered on individual merit.

Mature students, 19 years of age or older, will be considered for diploma or certificate programs on the basis of their background and experience.

Diploma Courses
Diploma courses are of two years' duration, with two semesters each year. Courses involve a combination of lectures and laboratory periods.

- **Dairy Technology**
This program is designed for students intending to follow a career in dairy farming or to seek employment in the dairy industry. It covers all aspects of profitable dairy herd management, with a practical hands-on approach to provide a thorough understanding of all aspects of production.

- **Livestock Technology**
This program provides training and education in the production and management of beef cattle, sheep, and swine. Students may take some dairy management courses. Practical training in the college research barns is an integral part of this programt The program is designed to give students a broad-based training in all aspects of livestock and crop production, with a heavy emphasis on management.

- **Equine Technology**
This program allows students to specialize in the management of horse enterprises. It also prepares students to meet the requirements for certification as qualified level 1 instructors by the Canadian Equestrian Federation.

Certificate Course
A two-year certificate in agricultural production techniques is offered as a practical alternative for students who do not qualify for the diploma program. Certificate students take a reduced academic course load and spend a considerable amount of time in hands-on training.

Financial Assistance
Bursaries and awards are offered by various organizations to qualifying students on the basis of academic performance. Students may also apply for grant or loan assistance through the Ontario Student Assistance Program.

Tuition Fees
Canadian students $460 per year; international students $920 per year. Total fees for residence, meals, books, travel, and student activiites are approximately $2 000 per year.

Further Information
Please address further inquiries to:
Principal
New Liskeard College of Agricultural
Technology
Box G
New Liskeard, Ontario P0J 1P0
Telephone (705) 647-6738

Ridgetown College of Agricultural Technology

Ridgetown

Director: D.W. Taylor

Ridgetown is midway between London and Windsor, in the centre of the agricultural and agribusiness area of western Ontario. It has facilities for teaching, research, and demonstration in all aspects of modern agribusiness and production technology. Also located on the 182 hectare (450 acre) research and demonstration site are a student residence, cafeteria, and recreational facilities.

Enrolment 1989-90

Two-year diploma	150
Three-year co-op diploma	20

Admission Requirements
Two-year diploma program applicants should have 30 credits (most at the general or advanced level) sufficient to have earned an OSSD or equivalent. Preference will be given to candidates with Grade 12 English and mathematics (general or advanced level).

Three-year co-op diploma program applicants may apply either after the successful completion of term 1 from any college of agricultural technology, or for direct entry into year 3 after graduation from a two-year diploma program at any college of agricultural technology.

Mature student applicants must be 19 years of age, have been out of school for at least two years, and have relevant work experience.

Part-time student applicants may take courses in any programs on a part-time basis for either audit or credit purposes.

International student applicants must successfully write the Test of English as a Foreign Language examination in their home country before applying for admission. Details of these tests may be obtained by writing: College Entrance Examination Board, Box 6155, Princeton, New Jersey, U.S.A. 08541-6155.

Diploma Courses
The academic year at Ridgetown is divided into two terms, beginning in September and January. Co-op work terms are also required for the three-year diploma program. Placements are arranged and supervised by the college.

• Agribusiness Management
This program equips students for a very wide range of "off-the-farm" careers in agribusiness, including sales, marketing, technical, advisory, and management positions in the feed, seed, grain, equipment, fertilizer, food processing, and farm supply industries. There is a mandatory work-term requirement between year 1 and year 2.

• Crop Production
This program provides in-depth technical training for students who intend to manage farming enterprises dealing mainly with all types of cash crops or commercial fruit and vegetable operations, or who intend to work with processing companies as fieldmen.

• Livestock Production
This program provides training for students who intend to manage farming enterprises dealing mainly with dairy, beef, swine, poultry, or sheep production, as well as related supply and processing industries.

• Ornamental Horticulture
This program provides in-depth technical skills training for students in the landscaping, floriculture, nursery, and lawn care industries. Students are equipped to work for established companies or to run their own business.

• Quality Control Laboratory
This program equips students to work in a wide range of quality control and research applications in agribusiness and food processing.

Three-Year Co-op Diploma
The elevator/farm supply specialization provides more advanced technical training for students interested in sales and managerial careers in the grain elevator/farm supply industry. Co-op work terms between academic years 1, 2, and 3 are required.

Financial Assistance
A number of bursaries, ranging from $250 to $600 each, are awarded annually to students requiring financial assistance. In addition, approximately $10 000 is made available by special county awards, service club donations, and memorial and scholastic awards and prizes. Students may also apply for grant/loan assistance from the Ontario Student Assistance Program. Loans are also available from the J. Harold Willson Student Loan Fund. See the introductory section of this publication, *Financial Assistance for Students.*

Living Accommodation
Students live on campus in Steckley Hall.

Fees
Tuition is approximately $230 per term. Room and 14 meals per week, student activities fees, books, tuition, and miscellaneous expenses amount to $1 520 per year.

Tuition fees for those without Canadian citizenship or landed immigrant status are $460 per term.

Further Information
Please address further inquiries to
Director
Ridgetown College of Agricultural
Technology
Ridgetown, Ontario N0P 2C0
Telephone (519) 674-5456

Canadian Coast Guard College

Sydney, N.S.

Ministry of Transport

The Canadian Coast Guard College in Sydney, Nova Scotia, offers excellent training and career opportunities to men and women who have a desire for a seafaring life and want to see more of, and learn more about, Canada. The college's aim is to produce professionally competent coast guard officers who have an understanding of modern leadership and management.

Graduate officers may serve aboard powerful ice-breakers, in search and rescue craft, aboard cable-laying vessels, or in the lighthouse and buoy-tending vessels that constantly travel Canada's shipping lanes to ensure that the nation's marine commerce moves in safety. The fleet has more than 60 vessels of sea-going size and includes some of the most modern ships of their type in the world.

Enrolment
42 officer-cadets

Training
The college training course commences in August and includes mathematics, physics, marine law, mechanical training, electrotechnology, computer science, and other fields related to shipping, as well as courses directly concerned with the ship's deck or engine-room operation. The training period (the length of which is subject to change) is divided into several phases for both courses:

Navigation cadet
- 11 months at the college
- 7 months at sea
- 10 months at the college
- 8 months at sea
- 9 months at the college

Marine engineering cadet
- 17 months at the college
- 4 months at sea
- 16 months at the college
- 5 months at sea
- 9 months at the college

Strong emphasis is placed on acquiring a working knowledge of both official languages so that graduates will be able to serve aboard vessels anywhere in Canada upon completion of their training.

Applicants must be prepared to serve as officers in the Canadian Coast Guard at sea for a period of four consecutive years immediately after graduation from the college.

Admission Requirements
Applicants must be Canadian citizens or have landed immigrant status; however, all qualified Canadian citizens will be accepted before any applicant holding only landed immigrant status. A pre-employment medical and an eyesight examination are required.

The normal deadline for requesting the entry package is January 31 of the year of entry. February 28 is the deadline for the college's receipt of documents (the postmark is the proof of date).

Applicants must have completed university preparatory courses in the following subjects: mathematics, physics, French, English, and chemistry, and must be graduates of Grade 13 (Ontario), CEGEP 1 (Quebec), or Grade 12 (other provinces and territories). Applications will be accepted from candidates who expect to satisfy these requirements by June of the entry year. Candidates attending courses to be finished in the year of entry are to submit a preliminary mark or evaluation for these courses to the registrar's office by February 28. Any offer of acceptance made in such a case will be conditional, subject to proof of having successfully completed all of the academic requirements.

For specific details relating to the educational system of each province, applicants should contact the registrar.

Note: No facilities are available for married officer cadets. Given the intensity of the training program, cadets are advised not to consider marriage while at the college.

Benefits

Cadets receive a monthly allowance ($180-$220) while attending college. Sea training allowances will increase the total allowance to $14 000 over the length of the program. Upon joining, cadets receive travelling expenses from home to college. Return travelling expenses are covered, after the first $25, from the college to home once yearly, at Christmas, by the most economical means.

Cadets receive free uniform issue, books, and board and lodging. They are covered by government Workers' Compensation and are eligible to participate in the Public Service Superannuation Plan, group surgical-medical provision, and many other benefits.

Physical Education

The college has a physical education program under the direction of qualified instructors.

Further Information

Requests for the application package and information concerning the Canadian Coast Guard College should be directed to

The Registrar
Canadian Coast Guard College
Box 3000
Sydney, Nova Scotia B1P 6K7

Canadian Memorial Chiropractic College

Toronto

Founded in 1945, the Canadian Memorial Chiropractic College is a non-profit, professionally owned institution of higher learning providing modern facilities including classrooms, laboratories (including a fully equipped anatomy laboratory), an auditorium, two teaching clinics, and a fully equipped X-ray department with instructional X-ray facilities. The course of study covers four years of approximately 4 527 hours, including basic sciences, chiropractic sciences, and clinic training including internship. The program leads to graduation with the Doctor of Chiropractic diploma.

Enrolment 1989-90

Full-time	583

Admission Requirements

Until September 1991: A candidate for admission must have completed Ontario Grade 13 or have the equivalent standing as determined by the Ontario Ministry of Education. In addition, candidates must have completed two academic years at a university in Canada or equivalent (10 credits, 60 semester hours) and have standing in prerequisite courses in biology, general chemistry, organic chemistry, psychology, and physics. Candidates from the province of Quebec must have a minimum of two years of study in the Colleges of General and Professional Education (CEGEP) plus one year of university.

As of September 1991: all candidates must furnish proof of having acquired a minimum of 60 semester hours, or equivalent, of university credit leading towards a baccalaureate degree at an institution accredited at the college level by an agency that has been listed as nationally recognized by the Ministry of Education. Postsecondary preprofessional education that has been acquired must have a cumulative grade point average of 2.25 or above on a 4.00 scale. No less than a "C" (2.00) in the biology, chemistry (general and organic), and general physics courses that follow will be accepted: biological sciences (with related laboratory), general or organic chemistry (with related laboratory), organic chemistry (with related laboratory), and physics (with related laboratory). In each of the specified science prerequisite areas (biology, inorganic chemistry, organic chemistry, and physics) a minimum of six semester hours with laboratory, each completed in two or more academic terms, is required.

No more than 20 semester hours, or the equivalent, of a candidate's preprofessional education (in courses other than the required natural, biological, and physical sciences) can be acquired through the College Level Examination Program (CLEP) or other college proficiency exams. Such equivalence will be acceptable only if the applicant has had certification of the credits by an institution accredited at the college level by an agency that is listed as nationally recognized by the Ministry of Education.

Candidates must present a minimum of: social sciences or humanities (24 semester hours), English or communication skills (6 semester hours), psychology (3 semester hours), and one other social science or humanities (3 semester hours), as well as the required sciences noted above.

The additional 12 hours of social science or humanities will be implemented by the fall enrolment of 1991. Applicants in doubt about their qualifications are advised to submit their references and academic records to the registrar for evaluation and consideration.

Financial Assistance

Several admission scholarships, bursaries, and in-course awards are available. Further information may be obtained from the college calendar or the registrar.

Ontario students may also be eligible for assistance on the basis of assessed need under the terms of the Ontario Student Assistance Program. Students from other Canadian provinces should contact their provincial government for information on financial aid.

Living Accommodation

Although the college does not maintain residence accommodation, a housing service is available through the Office of Student Services to help students find private accommodation near the college.

Tuition Fees

1989-90: $6 950 (not including incidental expenses of $210).
Tuition fees for students from Quebec and for students from outside Canada are $8 725 (not including incidental expenses of $210). First-year students are required to pay application, interview, and registration fees totalling $575 ($250 of which is applied to tuition fees).

Further Information

For further information, please contact
Registrar
Canadian Memorial Chiropractic College
1900 Bayview Ave.
Toronto, Ontario M4G 3E6
Telephone (416) 482-2340

CA Ontario (Institute of Chartered Accountants of Ontario)

Toronto

Executive Director: David A. Wilson, F.C.A.

The Institute of Chartered Accountants of Ontario, founded in 1879, educates and examines candidates for the profession and regulates the professional standards of its members and students. Only members of the institute can call themselves chartered accountants and use the designation CA or FCA.

Chartered accountants are trained as professional public accountants. As members of the Institute of Chartered Accountants of Ontario – the sole qualifying body under Ontario's Public Accountancy Act – CAs are eligible for a public accountant's licence.

Student Enrolment 1989-90

Total	6 100

Admission Requirements

University graduation is the basic admission requirement to the program of study leading to the CA designation. Most students enrol in the CA program after receiving a commerce or business administration degree, but many have found that a degree in arts, science, engineering, or other disciplines can also provide an effective educational background for the profession.

Mature students who do not have a university degree may request exemption from the university degree requirement. Arrangements can also be made for those people who are working toward a degree on a part-time basis.

In addition to a university degree, the educational requirements include a prescribed series of regular degree courses in accounting and related subject areas.

Program of Study

Students fulfil the course requirements at the university of their choice, either as part of their degree course requirements or through additional studies after graduation. The institute provides a brochure that sets out the university courses that satisfy its requirements.

Students must also obtain employment in a CA office designated for the training of students and register with the institute in order to start the three years of practical experience they must acquire. Students achieving a mark of 280 or more on the CA profession's uniform final examination (UFE) are eligible for a reduced two-year term of service.

The educational program also requires that students successfully complete the institute's school of accountancy – a program that integrates academic education and professional practice. Through innovative case analysis in four weeks of seminars in June, students focus on the skills that chartered accountants require. They prepare for this through a structured self-study reading and review program.

One of the requirements for the school is passing or receiving exemption from admission examinations in accounting, auditing, and taxation. The examinations are based on university courses that must be completed within or in addition to the student's degree program.

Graduates of some university business degree programs may qualify for exemption from one or more of the admission examinations. To qualify for exemption, a graduate must have completed prescribed courses and received an overall average grade in those courses that equals or exceeds the minimum average required by the institute. The institute's determination of whether a university degree program's graduates may qualify for exemption is based on the program's coverage of the subjects prescribed in the CA profession's uniform final examination syllabus and on the success rate of the university program's graduates in that final examination.

The admission examinations are held in January and August, with a supplemental sitting in May. A second regular sitting begins in January 1990; the May supplemental sitting will not continue after 1990. To be eligible to write the school's admission examinations, a student must be registered with the institute or have satisfied certain pre-registration requirements. The course requirements in each subject area must be completed before its related examination can be written. Students must successfully complete the school before attempting the Canada-wide UFE.

Co-operative Programs

Several Ontario universities, listed below, offer institute-approved CA co-operative programs of alternating terms of work and study. Students may complete the course requirements in these programs and fulfil, in some cases, up to two years of the practical experience requirement as part of the degree program.

The University of Waterloo offers three CA degree programs. Its Master of Accounting degree program has received special status from the Institute of Chartered Accountants of Ontario. Graduates of this program will proceed directly to write the UFE. The other two programs are honours (co-op) chartered accountancy studies in the Faculty of Arts and honours (co-op) mathematics (chartered accountancy option) in the Faculty of Mathematics.

Wilfrid Laurier University offers two CA co-op undergraduate degree programs in business administration. Brock University has a CA co-op undergraduate degree program leading to an honours Bachelor of Administration degree or a Bachelor of Accounting degree. The University of Ottawa offers a Bachelor of Commerce co-op degree program. Scarborough College at the University of Toronto offers a co-op program in administration.

Both McMaster University and the University of Toronto offer CA co-op programs in business administration. These programs are similar in approach to other co-op programs, except that they are taken at the graduate level.

Further information on these programs may be obtained from

School of Accountancy
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 6536

Faculty of Mathematics
Division of Mathematics for Industry and Commerce
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 2198

Office of Co-operative Education
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2484

School of Administrative Studies
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550 ext. 3446

University of Ottawa
275 Nicholas St.
Ottawa, Ontario K1N 6N4
Telephone (613) 564-4099

Faculty of Business
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4430

Faculty of Management
University of Toronto
246 Bloor St. West
Toronto, Ontario M5S 1V4
Telephone (416) 978-5528

Office of Co-operative Programs
University of Toronto, Scarborough College
1265 Military Trail
Scarborough, Ontario M1C 1A4
Telephone (416) 284-3117

Deadline for Registration

Students register with the institute as soon as they are employed by a CA office designated for the training of students. Applicants must also comply with the university registration dates for extramural students enrolling in degree courses. For the latter, details should be obtained from the university chosen by the applicant.

Fees

Students can obtain information about university course fees directly from the university of their choice. In addition, students must pay the institute's registration fee when they enter the program and an annual fee each year thereafter. In 1989 these fees were $110 and $160 respectively. The fee for the institute's School of Accountancy admission examinations is $90 per examination. The School of Accountancy fee was $935 and the final examination fee was $695 in 1989.

Further Information

For further information, please contact
The Office of the Registrar
The Institute of Chartered Accountants
of Ontario
69 Bloor St. E.
Toronto, Ontario M4W 1B3
Telephone (416) 962-1841
Toll-free 1-800-387-0735
Fax (416) 962-8900

Certified General Accountants Association of Ontario

Toronto

Executive Director: Gordon W. Fuller, FCGA

Certified general accountants are members of the Certified General Accountants Association. They work in financial positions such as controller, treasurer, director of finance, auditor, and tax specialist.

CGA Ontario offers a study program that prepares students to become direct participants in management. Students study subjects such as economics, law, information and computer systems, income tax, accounting, and auditing, to name a few. Graduation qualifies students for the designation CGA and membership in the association.

Student Enrolment 1989-90

Total	7 500

Admission Requirements

The national minimum entrance requirement is graduation from a secondary school. Approximately 70% of those entering the course do so after having graduated from university or college. These students receive advanced standing in the CGA program. Students enrolled with the CGA Association may select the type of business in which they wish to be employed and gain their practical experience; the choice is entirely theirs. All applicants must be residents of Ontario.

Program of Study

The program is primarily self-directed study, supplemented by lectures in 20 locations throughout the province. These lectures are held in universities and colleges.

Program 90, a computer-integrated program of studies, provides CGA students with hands-on experience of the microcomputer after completion of the first level. Another unique feature of the CGA program is that it is the only accounting program that offers options. The versatility of the option program allows senior students to specialize in the fifth level. Senior students may specialize in financial management, management accounting, public administration, or public practice. The program is national, and all courses are identical in each province. Students may, therefore, transfer from province to province without any disruption in their study program.

Modular System

The program has a modular system of study that enables students to vary their subject sequence to suit both the demands of their employer and their own personal needs.

Services

Students and members participate in and benefit from active local chapter associations. CGA Ontario also operates an employment referral service and a comprehensive library. In addition, it provides its members and students with their own professional magazine and optional professional development courses and seminars.

Further Information

For further information, contact the Director of Student Services at one of the following offices
Certified General Accountants
Association of Ontario
240 Eglinton Ave. East
Toronto, Ontario M4P 1K8
Telephone (416) 322-6520
Toll-free 1-800-668-1454

Certified General Accountants
Association of Ontario
107 Sparks St.
Suite 301
Ottawa, Ontario
K1P 5B5
Telephone (613) 232-5363, 232-5364

Hospital Programs

The following programs are offered at the hospitals indicated.

Medical Laboratory Technology*

Two years
Offered at: McKellar General Hospital
325 South Archibald St.
Thunder Bay, Ontario P7E 1G6
Telephone (807) 343-7003

Radiography*†

Two years
Offered at: Eastern Ontario Schol of X-Ray Technology
Kingston General Hospital
Stuart St.
Kingston, Ontario K7L 2V7
Telephone (613) 548-3232 ext. 4267

Radiotherapy

Thirty-two months
Offered at: The Princess Margaret Hospital
500 Sherbourne St.
Toronto, Ontario M4X 1K9
Telephone (416) 924-0671 ext. 4946/4947

*These programs are also offered at colleges of applied arts and technology. See the CAAT chart that appears earlier in this directory.

†These programs are also offered at the Michener Institute for Applied Health Sciences. Refer to the institute's listing in this directory.

Institute of Chartered Secretaries and Administrators in Ontario

Toronto

Executive Director: Brian L. G. Lechem

The Institute of Chartered Secretaries and Administrators in Ontario (ICSA) is an international professional organization of executive administrators. The Ontario institute is one of six provincial branches of the Canadian division. Although knowledge of administrative matters and corporate governance is a major requirement for ICSA examinations, a wide knowledge of public as well as business administration is also necessary. Members and students are employed in a wide variety of positions: university, hospital, and school administrators; clerk-treasurers of municipalities and administrative positions to the level of deputy minister in the public sector; and president, vice-president, secretary, treasurer, comptroller, etc., in the private sector. Members of other professions such as lawyers and accountants have earned the ACIS (Associate) or FCIS (Fellow) designations.

Established in Canada in 1920, the ICSA is incorporated provincially (including Ontario) and federally. The current international membership of ICSA is approximately 45 000. Although membership is obtained by passing examinations, graduates must also meet the standards of the position held and have the requisite number of years of working experience. If graduates cannot immediately meet such standards, they are designated as graduates of ICSA until these qualifications are attained.

Program of Study
Under the ICSA's syllabus a student must pass a maximum of 14 examinations in management and corporate governance subjects. The first six prerequisite courses may be examined by approved institutions. The final eight courses in the professional program are to be taken by correspondence courses or through an approved educational institution and, in all instances, examined by the ICSA. When courses are taken at an educational institution, a transcript is necessary before the professional examinations may be written. Exemptions are available, and the well-qualified entrant may substantially reduce the number of examinations.

Registration
Before writing an institute examination, the student must be registered. The majority of registered students are in Ontario, where the Institute has branches in Toronto and Ottawa. Because a primary objective of the ICSA is to train its members' successors, continuous liaison is maintained with students. Co-operating universities and colleges have their own deadlines for registration for lectures.

The ICSA holds examinations in June or December, depending on the subject areas.

Student Awards
A gold medal is given each year to the graduating student who achieves the highest aggregate marks in examinations. Prizes and other awards are open to competition on a national and branch basis.

Fees
Fees are assessed for the annual student registration and for exemptions granted. Information may be obtained from the administrator in the national office.

Services
The institute regulates the professional standards of its members and students, an only members may describe themselves as chartered secretaries and use the FCIS or ACIS designation after their names. At the various levels (national office, branch, and chapter) the ICSA offers a wide variety of services, including dinner and other meetings, a quarterly magazine, conferences ar seminars, research and information, and professional development generally. Students are always invited to attend meetings

Further Information
For further information please contact
The Administrator
Ontario Branch
The Institute of Chartered Secretaries and Administrators
250 Consumers Road
Suite 301
Willowdale, Ontario M2J 4V6
Telephone (416) 494-3757
Fax (416) 495-8723

Michener Institute for Applied Health Sciences (formerly Toronto Institute of Medical Technology)

Toronto

Executive Director: Dr. D.M. Schatz

The Michener Institute for Applied Health Sciences is a specialized postsecondary educational institution offering programs in various health technologies. From its beginning in 1966, with one program and 16 affiliated teaching hospitals, it has grown to include six full-time programs and more than 40 affiliated hospitals. It also offers a variety of postdiploma specialty and postgraduate continuing education programs for working technologists.

Each full-time program is actively supervised by an advisory council, which consists of medical specialists and technologists from affiliated hospitals, institute teaching staff, and student representatives. It is the responsibility of the advisory councils to ensure that the programs meet the needs of health care and provide the basis for advanced study. Similarly, advisory committees in each specialty assist in identifying and meeting the needs for postgraduate education offered through the Division of Part-Time Studies.

The institute's building, in downtown Toronto, features specialized laboratory design and modern equipment, which offer excellent facilities for training in the health sciences.

Health workers must possess a sense of responsibility and be able to work carefully and accurately. The ability to work co-operatively with colleagues and to deal with patients effectively and sympathetically is important.

Enrolment 1989-90

Full-time	500

Programs Offered

- **Medical Laboratory Technician**

One-year certificate
This one-year program is designed to produce graduates capable of performing routine technical procedures under the supervision of registered laboratory technologists. Before the establishment of this program, medical laboratory technicians were trained on the job within the hospital environment and did not possess any recognized qualifications. Recent increases in the scope and volume of investigations carried out by hospital laboratories have expanded the role of laboratory technicians and created a need for formal training.

Admission requirements
An OSSGD or OSSD with mathematics and chemistry at the Grade 12 level and mathematics and one other science at the Grade 11 level. Students from outside Ontario must have the equivalent educational standing.

- **Cytotechnology**

Two-year diploma
Cytotechnologists play an instrumental part in the diagnostic procedure. The preparation and staining of specimens submitted to the laboratory and detailed examination of material from various body sites are included in their responsibilities. Cytotechnologists' work is supervised by pathologists, either in a hospital or in a private laboratory.

Admission requirements
The requirements for admission to the R.T. program are an OSSHGD or OSSD with six Grade 13/OAC credits including mathematics, chemistry, and one of biology or physics. Students who intend to enter the cytotechnology program are advised to take biology as the second science. Students with an OSSGD or OSSD who have completed an appropriate first year in a college of applied arts and technology may apply for equivalent standing.

Students from outside Ontario must have the equivalent educational standing.

- **Radiography**

Two-year diploma
The two-year training program is organized jointly by the Michener Institute for Applied Health Sciences and the affiliated teaching hospitals. An orientation period in a hospital is followed by further training in theory and practice at the institute. Students spend a considerable portion of the two-year period obtaining clinical education in an affiliated hospital.

Admission requirements
An OSSGD or OSSD with at least 27 credits, including the following advanced level credits from Grade 11 or 12: two mathematics, two English or French, one physics, and one of either chemistry or biology. Two additional sciences at either the general or advanced level are required.

Students from outside Ontario must have the equivalent educational standing.

- **Medical Laboratory Technology**

Two-year diploma
The current rapid advances in technological knowledge make laboratory technology, one of the oldest established medical technologies, an interesting and challenging career. Laboratory technologists are an important part of the health team because physicians have come to depend on the results of laboratory tests to aid them in the diagnosis of disease and in selection of appropriate treatment. Medical laboratory technology is divided into five major specialties: clinical chemistry, hematology, histotechnology, immunohematology, and microbiology.

Admission requirements
An OSSHGD or OSSD with six Grade 13/OAC credits including mathematics, chemistry, and one of biology or physics. Students who intend to enter the medical laboratory technology program are advised to take biology as the second science. Any of the three proposed mathematics courses for secondary schools will be acceptable; however, the most appropriate course is functions and relations.

Students with an OSSGD or OSSD who have completed an appropriate first year in a college of applied arts and technology, including mathematics, chemistry, and biology, may apply for equivalent standing.

Students from outside Ontario must have the equivalent educational standing.

- **Nuclear Medicine Technology**

Two-year diploma
Nuclear medicine technologists are responsible for the safe and accurate performance of diagnostic tests involving the use of radionuclides. These tests may be divided into two categories: *in vitro* testing involves the use of radioactive chemicals to make analyses of specimens in a laboratory remote from the patient; *in vivo* testing involves the administration of radioactive materials to a patient, followed by specific testing to determine body function. Both types of testing provide answers that aid physicians in determining the nature and extent of disease, thereby helping them to decide on the proper treatment.

Admission requirements
An OSSHGD or OSSD with six OAC credits including the following advanced level credits in Grade 11, 12, or 13: two mathematics, two English, two chemistry, one physics, and one additional science.

Students from outside Ontario must have the equivalent educational standing.

- **Respiratory Therapy**

Two-year diploma
Respiratory therapists are trained to assist physicians in the diagnosis, treatment, and management of patients with respiratory and associated disorders.

The two-year training program is organized and carried out jointly by the institute and affiliated teaching hospitals.

The first phase of the program (10 months) is carried out at the Michener Institute for Applied Health Sciences. During this time, students study anatomy, physiology, physics, chemistry, pathophysiology, pharmacology, and microbiology. Students also receive detailed theoretical training in instrumentation, therapeutics, and diagnostics applicable to cardiorespiratory medicine. The lectures are co-ordinated with extensive laboratory experience designed to familiarize students with the operation and the practical application of a broad range of instrumentation used by respiratory therapists.

The clinical year provides students with practical training in affiliated teaching hospitals. Students learn to perform respiratory techniques and procedures under actual working conditions.

Admission requirements
An OSSGD or OSSD, with advanced level credits in Grade 12 English, mathematics, and chemistry, and Grade 11 physics.

Students from outside Ontario must have the equivalent educational standing.

Part-Time Studies
The Division of Part-Time Studies offers working health care professionals a wide variety of learning opportunities, both days and evenings, throughout the year. Telephone (416) 596-3117 for more information.

Tuition Fees 1989-90
First year full-time $732 to $955
Second year full-time $935 to $975

Living Accommodation
The institute has no residence, and students are responsible for finding their own accommodation. Students from outside Toronto are advised to find accommodation close to the subway or close to the institute itself, possibly in one of the student residences located in central Toronto. The registrar's office will post a list of housing available in July for students' use.

Health Service
The Health Service office is staffed by a certified occupational health nurse, who offers emergency first aid and a preventive medicine program. The nurse is available for confidential counselling on all types of health problems.

Student Placement
A placement service is offered to assist graduates in finding employment. Any student who requires assistance in finding employment should register with the placement service.

Financial Assistance
OSAP assistance is a combination of a loan through the Canada Student Loans Plan and a non-repayable grant from the province of Ontario. The loan is interest-free as long as the student is enrolled full-time at an approved institution and for six months thereafter. The assistance provided is equal to the difference between the student's assessed edcuational costs and assessed resources.

To be eligible for assistance, the student must be a Canadian citizen residing in Ontario at the time of application or have landed immigrant status and have resided in Ontario for at least one year. Applications and up-to-date information about OSAP and individual student eligibility for assistance can be obtained from the registrar's office.

Further Information
Further information may be obtained from
The Admissions Department
Michener Institute for Applied Health Sciences
222 St. Patrick St.
Toronto, Ontario M5T 1V4
Telephone (416) 596-3143

Niagara Parks Commission School of Horticulture

Niagara Falls

Superintendent: William Snowden

The Niagara Parks Commission School of Horticulture is located on the Niagara River Parkway about 8 kilometres north of the Canadian Horseshoe Falls and is funded by the Niagara Parks Commission. The school year begins in April, and the course of study extends for 36 consecutive months. During each school year, students are granted the regular statutory holidays in addition to four weeks' vacation as follows: three weeks beginning before Christmas and extending into January, and one week during the growing season. Students are engaged in classroom activities or practical work experience for 40 hours per week.

Facilities include a residence, lecture halls, a library, laboratories, greenhouses, a herbarium, and administrative offices. The 33-hectare grounds include a rose garden, a herb garden, fruit and vegetable gardens, and an arboretum, maintained entirely by students as part of their practical work.

The program emphasizes ornamental horticulture and prepares students for immediate responsibilities in the work place, but also offers an optimum preparation for those who aspire to further studies in horticultural sciences, landscape architecture, and the administration of public and private lands.

A substantial number of graduates find employment in the field of park maintenance and administration, and an increasing number find employment in private enterprise in the landscape, nursery, and greenhouse industries, golf courses, and horticultural sales. Others undertake graduate courses and teaching positions.

Enrolment 1989-90
Total 36 (12 per year)

Admission Requirements
Grade 12 advanced level or its equivalent, with a 60% average in English (four years), mathematics (four years), chemistry, and biology.

Previous summer work experience in horticultural activity is also required. The extent and nature of this work has an important bearing on candidates' selection for admission.

Candidates must be Canadian citizens or permanent residents, demonstrate that they are physically fit, be able to understand, speak, and write English, and have a commitment to a horticultural career. One international student may be accepted each year. Inquiries or visits are encouraged at all times. Applications are accepted until June 30 each year for admission each April of the following year.

Program Offered
A three-year diploma program in general horticulture leading to the Niagara Parks diploma (N.P.D.), with practical work experience and academic training in equal balance. No options are offered. The curriculum includes arboriculture, botany, business management, English, entomology, floriculture, fruit culture, greenhouse management and production, horticultural chemicals, land surveying, landscaping, plant identification, plant pathology, plant taxonomy, seed production, soils, turf grass management, and vegetable culture.

Fees
Tuition fees are $750 per year (international students $3 350). This fee includes a $100 field trip fee. A refundable deposit of $600 is required on admission.

Residence Accommodation
Accommodation and prepared meals are provided on campus for the first two years at no charge. Third-year students are required to live off-campus at their expense.

Student Financial Allowance
As partial compensation for the students' work effort, an allowance is paid on a graduated scale for the three years (currently $26 – $28 – $40 per week).

Further Information
Admissions
School of Horticulture
The Niagara Parks Commission
P.O. Box 150
Niagara Falls, Ontario L2E 6T2
Telephone (416) 356-8554

Nursing Assistant Program

Nursing assistant programs provide an opportunity for men and women to enter the field of nursing. All programs offer courses in the biological and social sciences that have application to the theory and practice of basic nursing, as well as planned clinical experience under faculty supervision. Upon successful completion of a program, graduates are eligible for admission to the examination conducted by the statutory body, the College of Nurses of Ontario, leading to registration and certification of nursing assistants in Ontario.

Registered nursing assistants work with registered nurses to provide nursing care to individuals in various health-care settings such as hospitals or continuing-care facilities. They provide nursing care in collaboration with registered nurses.

Nursing assistant programs, except for those in secondary schools, are 36 to 40 weeks in length. Following is a list of the nursing assistant programs in Ontario:

Colleges of Applied Arts and Technology

The academic prerequisite for the nursing assistant program is 27 Ontario secondary school credits or the equivalent, or mature student status (an applicant must be 19 years of age or older).

The program is offered at the following colleges:

Belleville: Loyalist College
Brockville: St. Lawrence College
Chatham: St. Clair College[†]
Cornwall: St. Lawrence College
Etobicoke: (Toronto): Humber College[*][†]
Hamilton: Mohawk College
Kingston: St. Lawrence College
Kirkland Lake: Northern College[†]
Kitchener: Conestoga College
London: Fanshawe College[*]
Mississauga: Sheridan College
North Bay: Canadore College[†]
Orillia and Owen Sound: Georgian College[†]
Oshawa: Durham College
Ottawa: Algonquin College[*]
Ottawa: La Cité collégiale (French program)
Pembroke: Algonquin College
Peterborough: Sir Sandford Fleming College[†]
St. Catharines: Niagara College[*]
Sarnia: Lambton College
Sault Ste. Marie: Sault College
Scarborough (Toronto): Centennial College[†] [*]
South Porcupine: Northern College (bilingual and English programs)
Sudbury: Cambrian College (bilingual and English programs)[†]
Thunder Bay: Confederation College
Toronto: George Brown College
Windsor: St. Clair College[†]

Hospitals

For information concerning academic admission requirements to a nursing assistant program in a hospital school, contact the hospital school.

Collingwood: Collingwood General and Marine Hospital
Elliot Lake: St. Joseph's General Hospital
Fort Frances: La Verendrye Hospital
Kenora: Lake of the Woods District Hospital
Sturgeon Falls: West Nipissing General Hospital (in French)
Wingham: Wingham and District Hospital

Secondary Schools

The following secondary schools offer the nursing assistant program in Grades 11 and 12. The program is taken concurrently with other secondary school courses.

Kapuskasing: Kapuskasing District High School
London: H.B. Beal S.S.
Newmarket: Huron Heights S.S.
Peterborough: Kenner Collegiate V.I.
Toronto: Bathurst Heights S.S.
Toronto: Central Technical School

Financial Assistance

Students in nursing assistant programs at colleges of applied arts and technology and hospital schools are eligible to apply for assistance from the Ontario Student Assistance Program. For information on this government assistance program, see the introductory section *Financial Assistance for Students*.

Further Information

For further information on nursing assistant programs, applicants should contact the institution offering the program selected. For information on other health science programs, refer to the CAAT chart, the university chart, or the section on the Michener Institute for Applied Health Sciences in this publication.

Society of Management Accountants of Ontario (SMAO)

Toronto

Executive Director: R.W. Dye, CMA, FSMAC

The Society of Management Accountants of Ontario is the professional body devoted to the training, accreditation, and continuing professional education of the province's certified management accountants (CMAs). It is one of 12 affiliates across Canada through which men and women may earn the nationally recognized CMA designation. Ten thousand certified members and 10 000 student members are registered with the Ontario society. The CMA program specializes in the problem-solving and decision- making needs of management.

In order to receive the CMA designation, candidates must successfully complete the required academic and professional program outlined by the SMAO, along with an entrance and final examination and a minimum of two years of practical work experience.

Program of Study

The CMA professional program prepares candidates to apply accounting skills in a management context as required for progressively senior levels of management. The program will introduce current management accounting issues and new management concepts in interactive learning situations. The program's content is drawn from six subject areas: the changing environment of management accounting, new management accounting technology, the organizational environment, evolving operations management procedures, new management techniques, and the professional environment. Students will be exposed to different learning experiences through independent study, group sessions, and residential sessions.

Route to CMA Accreditation

The CMA accreditation process consists of three general components: a preprofessional requirement; a national, comprehensive entrance examination; and a two-year professional studies program. While progresssing through the professional program, cnadidates must fulfil the minimum practical experience requirement of 24 months. Once that requirement has been fulfilled, the candidate is eligible to write the final examination, which will cover the content of the professional program.

Admission Requirements

The preprofessional requirement must be fulfilled before the candidate can be considered eligible to write the entrance examination for admission into the professional program. This requirement is completed through full- or part-time Canadian university business degree studies. General education studies, accounting, and non-accounting studies make up the various components of the preprofessional requirement. Most Ontario university students graduating with a business degree with an accounting emphasis will have completed this program requirement. Detailed information is available in the society's preprofessional syllabus brochure.

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[*] Part-time program available.
[†] First semester common to nursing assistant and nursing programs at the college.

Graduates from arts and science programs, community colleges, and other professional associations may be eligible for exemptions from the preprofessional requirement. Candidates are advised to submit their transcript to an Ontario university for evaluation. Where exemptions are not granted, candidates must complete the preprofessional requirement through university study.

Associate Membership

The SMAO makes associate membership available to full-time university students interested in a career in management accounting. In return for the payment of a nominal annual fee, the student will have access to the membership newsletter, *CMA* magazine, the employment search guide, and the employment search support service.

Professional Services

The 22 local chapters of the SMAO hold regular meetings and events on matters of professional concern to the membership. Members may also take advantage of such SMAO services as the comprehensive lending library and research facility at the Hamilton office, the high-technology Business Information Centre at the Toronto office, and a province-wide employment search support service available through the Toronto office. Other services include: *CMA*, the national society's magazine on management accounting practice, managerial control, and related topics; an annual members' dinner; annual national and provincial conferences; continuing professional education seminars; and the publication and distribution of many of the Society's research studies.

Further Information

Contact a program adviser at
The Society of Management Accountants of Ontario
70 University Ave., Suite 300
Toronto, Ontario M5J 2M4
Telephone (416) 977-7741
Toll free 1-800-387-2991

Toronto Art Therapy Institute

Toronto

Executive Director: Martin Fischer, M.D., D. Psych., F.R.C.P.

The Toronto Art Therapy Institute offers graduate-level diploma training in art therapy. The institute encourages students to undertake an individualized approach to learning.

The institute's program is designed to prepare art therapists to work in facilities such as community health centres, psychiatric hospitals, general hospitals, public and private schools, daycare and residential centres, centres or programs for physically handicapped children and adults, senior citizens' residences, and centres or special programs for physically and sexually abused women and children.

Students are trained to work with individuals, families, and groups. The theoretical base is eclectic and emphasizes a dynamically oriented approach. It includes theoretical and practical knowledge in diagnosis, treatment, rehabilitation, and education.

The Diploma in Art Therapy is granted upon satisfactory completion of approximately 650 hours of course work and course requirements. All course requirements must be submitted one month before graduation. Students fulfil a minimum of 700 hours of internship in various sites. This includes weekly individual and group supervision with a registered art therapist and regular consultation with the institute's consulting psychiatrist. Students enrolled in the diploma art therapy training program are expected to take courses on a full-time basis and will ordinarily complete requirements in two years.

Students are required to maintain a B+ average in both classroom and internship. The personality and intellectual capabilities of each student are carefully evaluated. Students may be disqualified from the program for factors other than grades.

All students are required to participate in individual or group psychotherapy with a member in good standing of the Canadian Group Therapy Association, the Canadian Psychological Association, the Canadian Medical Association, or the Canadian Association of Social Workers. One month before completing the program, students are required to submit letters from their therapists certifying that they have actively participated in their personal therapy and indicating whether significant changes have occurred in areas that have been identified as problematic. The institute recommends 80 hours of therapy during the program. Trainees who have engaged in therapy before enlisting in the training program must provide written evidence from their therapist regarding the duration and outcome of their therapy.

Students are granted one sick day a mon
(10 days a year), which does not have to
made up as long as students present a
doctor's letter. More than 10 days missed
one year must be made up through registe
ing for a new term and paying tuition fees
that are pro-rated on the basis of time
missed.

Students enter the training program on a
three-month probationary period. The in-
stitute staff reserve the right to ask student
to withdraw from training, and students ha
the right to leave the training program. Stu
dents are expected to participate in any
professional conferences, workshops, or
events in which the institute is involved.

Fees

Tuition fees are $6 000 for ten months of study. The fees include the cost of individual and group supervision, seminar classes, and laboratory fees.

Financial Aid

Students loans are available through Canada Student Loans.

Further Information

Toronto Art Therapy Institute
216 St. Clair Avenue West
Toronto, Ontario M4V 1R2
Telephone (416) 924-6221

Registered Private Vocational Schools

Introduction

A wide range of training programs exists to help Ontarians prepare for the job market or enter the professions.

For many occupations, registered private vocational schools can provide a suitable alternative to the training offered by colleges, universities, apprenticeship, and other provincial skills development programs. Private vocational schools have been a part of postsecondary education for many years; in fact, several of the schools have recently celebrated their one hundredth anniversaries.

There are over 200 registered private vocational schools in Ontario. Although several of them offer training in a variety of occupations, the majority focus on courses that will prepare students for clearly defined occupations, such as those listed in this directory. However, all have the common objective of bringing the student, in the shortest possible time, to the level of a beginning practitioner for the advertised occupation. Courses are usually provided in morning, afternoon, and evening sessions and in some cases by correspondence.

Since practical skills are stressed and liberal arts studies minimized, the programs will appeal to those who need practical skills to enter the work force as quickly as possible. Included in this group are students who may not be particularly interested in academic studies at this point in their career, as well as those who need specific practical skills in addition to their academic qualifications to become more competitive in the market place.

Registration of Private Vocational Schools

Private vocational schools are privately owned and are operated as commercial enterprises. However, they must be registered under the Private Vocational Schools Act, which is administered by the Private Vocational Schools Unit, Ministry of Colleges and Universities.

Registration of a school under the Act means that it has met the minimum requirements set out in Regulation 801 under the Act, regarding curricula, teacher qualifications, advertising, refund policies, etc. Nevertheless, as potential consumers, when choosing a program, students must exercise the same care and precautions that they would undertake when making any major purchase, especially when it is considered that not only their money but also their time is involved.

The schools offer many courses in each subject or occupational area. Courses vary widely in terms of the subject matter that will be covered. For example, one course in radio may teach radio repair, while another may prepare a person for a position with a broadcasting company. It is suggested that students write to the schools offering the subjects that are of interest to them in order to obtain specific information prior to undertaking any formal arrangements with any one school.

Although two or more registered private vocational schools may offer programs and courses with similar titles, this does not mean that the courses are of equal merit or will be of equal value to the student. Each school is registered on the basis of its own program offerings, and it is students' responsibility to decide which school and courses best meet their needs. The assessment of a school by potential students should include not only the curriculum but also the facility, the equipment, and the calibre of the teachers; all these aspects should be assessed in relation to the tuition costs.

Sales or Admissions Representatives for Registered Private Vocational Schools

As a service to clients who live far away, some schools employ a representative to meet with prospective clients. Usually the meeting takes place in the clients' own homes.

Ontario law requires that these agents must have identification bearing both their names and the names of the schools represented. The identification should be presented to prospective students whenever business is discussed outside of the schools.

Applicants are cautioned not to become involved, outside the school's premises, with anyone who does not possess valid identification from the school bearing the representative's name.

Types of Programs/Courses Offered

Private vocational schools offer training programs or courses in a variety of residential, combination, or correspondence courses to suit students' life styles or work commitments. The following descriptions are provided for the convenience of the potential applicant.

Residential programs/courses

Residential programs require students to be in personal attendance at the school. Classes may be offered on a full- or part-time basis, in either day or evening sessions. These programs may be offered in either registered or non-registered categories.

Combination programs/courses

Students are able to complete the major part of these programs by correspondence. However, in order to complete the program or course and become eligible to receive the school's diploma or certificate, students must attend the school personally for a prearranged number of sessions or obtain some on-the-job experience for a specified period of time. Such arrangements must be clearly defined on the contract signed by the student and the school. It should also be indicated whether the program is registered or non-registered.

Correspondence programs/courses

Hundreds of programs and courses may be studied by correspondence, but only a few of these are required to be registered under the Private Vocational Schools Act.

Registered programs/courses

Training completed by means of one of these programs or courses provides the successful graduate with a potential for entry-level employment in the occupation for which training was given. Schools offering these programs are required to register under the Private Vocational Schools Act, and the programs or courses must be assessed by the Ministry of Colleges and Universities. Examples of the programs appear on the following pages under Section 1: Residence Courses and Section 2: Correspondence Courses, marked with an asterisk(*).

Non-registered programs/courses exempted under the Act and Regulation

Many institutions offer training that does not lead directly to employment; for example, driving instruction for non-commercial vehicles, speed-reading, health and fitness, and tax preparation. These programs are non-vocational in nature, and the schools offering them are not required to register under the Private Vocational Schools Act.

However, since schools registered under the Act may also offer non-registered programs that may be taken either in residence or by correspondence, potential students should ensure that the category "registered" or "non-registered" is clearly specified in any contract. (Non-registered programs are not scrutinized by the Ministry of Colleges and Universities.)

Programs that are not registered by the ministry include the following:

- secondary school subjects or other preparatory courses that may require completion prior to acceptance into formal training for an occupation or career;
- programs that focus on personal or professional development;
- programs of a very short duration, i.e., under 24 hours;
- programs that are considered recreational in nature;
- programs that may provide students with partial credit towards the requirements designated by certain associations or other regulatory bodies for entry into technical or professional occupations.

Apprenticeship

Some programs offered by registered private vocational schools are closely allied to apprenticeship. A number of trades are regulated under the Apprenticeship and Tradesmen's Qualification Act. Regulations under this Act require that all persons practising certain trades, such as motor vehicle mechanic, hairdresser, or carpenter, hold a Certificate of Qualification, obtained through apprenticeship training. It is suggested that students read the section "Apprenticeship" elsewhere in this publication before making any decisions about programs of this nature.

General Admission Requirements

For enrolment in most registered private vocational school courses, students should meet one of the following requirements:
- Grade 12 standing or the equivalent;
- mature student status. Mature students should be 19 years of age and have been away from school for at least one year.

Applicants who have mature student status are reminded that some employers require a Grade 12 diploma as a qualification of employment even if a postsecondary training program has been successfully completed.

Applicants should obtain information about any additional or special admission requirements from the school of their choice, as well as employers in their chosen occupational areas.

Financial Assistance for Students

A limited number of registered private vocational schools are eligible to participate in various government financial assistance programs for students. Normally this assistance applies only to courses that are twelve weeks or longer in duration and require Grade 12 or equivalent for enrolment. For more complete details consult the Student Awards Branch, Ministry of Colleges and Universities, 8th Floor, Mowat Block, Queen's Park, Toronto, Ontario M7A 2B4, or Box 4500, Station P, Thunder Bay, Ontario P7B 6G9, telephone toll-free 1-800-465-3013 or (807) 345-4830; or refer to the section "Financial Assistance for Students" in this guide.

Opportunities for Employment

The fact that individuals have completed a training program in a college, university, or registered private vocational school does not guarantee employment. However, a good program should provide graduates with the skills required to meet the minimum employment standards of a particular occupation.

Factors to Consider Before Enrolling in a Registered Private Vocational School

1. Potential students should realistically evaluate their aptitudes and decide, first, whether they have the physical and mental qualities and the educational background required to profit from the chosen course and second, whether they are willing to devote the time and energy required to succeed in the course.
2. Prior to enrolling in a private vocational school, applicants should ensure that the school is registered to operate in Ontario.
3. Applicants should look at the total cost, including the registration fee, tuition, laboratory fees, books, transportation, room and board, and incidental costs. The contract should also be examinied carefully to find out what it will cost if applicants need to leave the course before training is completed. Repayment of any debts incurred as a result of the course, such as OSAP or other loans, should be considered.
4. Applicants should ensure that all aspects of the training program, including all tuition costs, the duration of the program, the starting date, and refund policies are stated in the contract to be signed by them.
5. *Applicants should read the contract and be sure they understand it before signing it.* More detailed information can be found in the section on contracts, below.
6. Applicants should visit the school and see the facilities and equipment. If possible, they should talk with some of the school's students or graduates or with employers who have hired graduates.

Additional Information

Further information may be obtained from:

Superintendent, Private Vocational
Schools Unit
Ministry of Colleges and Universities
11th Floor
790 Bay Street
Suite 1103
Toronto, Ontario M5G 1N8
Telephone: (416) 965-5348

To obtain specific information about particular courses, students should write to the schools that interest them and request information relating to costs, course content, length of training, entrance requirements, and starting dates for courses.

Further information may also be obtained by writing to the Private Career Education Council, 1-301 Fairview Drive, Cooper Towers, P.O. Box 340, Brantford, Ontario, N3T 5N3, telephone (519) 753-8689.

Contract Between the School and the Potential Student

The Contract

Enrolment in a registered private vocational school must be done by means of a contract. The school is responsible for providing only those educational services that are outlined in its contract or brochure under the conditions or terms specified. The form of the contract must be acceptable to the Superintendent of Private Vocational Schools, and the actual contract must be signed by both the applicant and the school's owner or representative. In the case of an individual under the age of eighteen, the signature of the person who will be responsible for fee payments (the guarantor) must be included. Both parties to the contract should hold a copy bearing original signatures. **The contract is legally binding 48 hours after it has been signed by the applicant or the guarantor.**

Retention and Repayment of Fees

In order to ensure that students understan the full cost of training or their liability on withdrawal from a school, the ministry requires that some excerpts from the Revise Statutes of Ontario, 1980, and Ontario Regulation 801 as amended under the Private Vocational Schools Act are include as part of the school's contract. These excerpts provide information on the following
- the registration fee;
- the amount of tuition fee to be retained b the school or refunded to the student shou the student withdraw from the school;
- the amount of tuition fee to be retained b the school or refunded to the student shou the student be dismissed from the school for whatever cause;
- the time period within which a refund mu be made by the school to the student.

Should there be any tuition fee refund du to the student, the school is obligated to make the refund only if the student has notified the school in writing of his/her intention to withdraw. The letter must either be sent by registered mail or be delivered in person to the school. The date of withdraw from the school will be the date when the school receives the written notice of withdrawal.

It is advised that all aspects of the contract be clearly understood before the contract is signed by the student or guarantor.

How to Use This Directory

Section 1 of this directory gives a partial lis of the courses available on a residence or combination basis.

Section 2 gives a partial list of the course available by correspondence or on a combination basis.

Section 3 lists the registered private vocational schools that offer the courses listed i the previous two sections. The schools are listed in alphabetical order according to the code and are cross-referenced with the courses they offer. The codes that follow each course in sections 1 and 2 can be matched with the codes that precede the name of each school in section 3.

Only those schools that were registered as of December 31, 1989, are included. A list of private vocational schools registered since that date may be obtained from the Private Vocational Schools Unit at the address given in the "Additional Information" section above.

Section 1: Residence Courses

PROGRAM TYPE	SCHOOL
Accounting	CBT-1, CIB-1, CIB-2, CIB-3, HST, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PBC, RSC, SHA-1, TSB-2, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, WBC
Animal Care Assistant	OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8
Auctioneering	MAS, SOSA
Audio Technology	HIA-1, OIAR, RAPC-1, TRW
Banking & Bank Teller	CBS-1, CBS-2, CIB-1, CIB-2, HC-1, HC-2, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, RSC, SWBC, TSB-1, TSB-3, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10 TSB-11, TSB-12, TSB-13, WBS
Bartending	CHS, HC-1, HC-2, HSC, TBT, TTHS
Bookkeeping	BB-1, CBC, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, ST-1, SWBC, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13
Broadcasting	NIB
Business Administration	CBC, JBA-1, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, PARK, PBC, RSC, SCBC, SHA-1, TSB-1, TSB-2, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, WBS, WILBC
Child Care	OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9
Clerical	CBT-1, HER-2, HST, JBA-1, MBS, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBC, WILBC
Computer Programmer/ Operator	AMJ, BRA, CBT-1, CIB-1, CIB-2, CIB-3, CLC-1, CLC-2, COND, COND-2, COND-4, COND-5, DBCC, DIT, HBI, HER-1, HER-2, HIC, IAMD, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, PARK, RBC, SCA, TSB-1, TSB-2, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, WBS, WILBC
Computer Technology	AMJ, COND, COND-2, COND-4, COND-5, DCT, DCT-1, HER-1, HER-2, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, RETS, TSB-14
Cosmetology	CCMH, LMSA, VERS
Court Reporting	RETS
Data Entry	AOL-1, AOL-2, AOL-3, AOL-4, AOL-5, AOL-6, AOL-7, AOL-8, AOL-9, AOL-10, AOL-11, AOL-12, AOL-13, AOL-14, AOL-15, AOL-16, CIB-1, CIB-2, PARK, RBC, RSC, TDI
Dental Assistant	CBT-1, CBT-2, CBT-3, CCC-1, CCC-2, CCC-3, TSB-1, TSB-4
Drafting	ITT
Electrolysis	BIEE-1, DLI, GIN-1, GIN-2, INTE, OBE, PSEB, RSEB, TBSC-1, VERS, ZSEC
Electronics - Technician/ Technologist	AMJ, DIT, HER-1, HER-2, RCC, RETS, TSB-2, TSB-3, TSB-4, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13
Esthetics	AA, BIEE-1, CBI, DLI, EE-1, ESI, GIN-1, GIN-2, INTE, JMAA, LSAE, MSA, MSSC, PSEB, TBSC-1, VERS, ZSEC
Fashion Design	EPFI, IAMD, LACC
Fashion Merchandising	ESI, FIC, IAMD, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, SHA-1, TSB-1, TSB-3, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13
Floristry	CIFD, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, TSFD-1
Forestry & Landscaping	NT-1
Health Care Aide	AIHC-1, CAPS, CIHC-1, HCVC, NSV-1 NSV-3, OSIL-1, OSIL-2, PNS, RI
Hotel Operations & Management	ACA, CCC-1, CCC-3, CHS, HC-1, HC-2, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, TSB-3, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBS
Interior Design	IAMD, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, SWBC
Laboratory Assistant	LAI-1, CBT-1, RI
Law Clerk	CSPI, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, PBC
Locksmithing	AL
Make-up Artist	ASM, CARYL-1, CMSI-1, CSSM-1, EDSK, EFL-1, ESI, ESIM, FSM, GIN-1, GIN-2, ITM-2, JMAA, LAKE, MSSC, NEW, PSEB, PSMA, RMAM, SMA, SMS-1, TMAS, ZSEC
Manicure/Pedicure	DLI, NAI-1
Massage & Hydrotherapy	CCMH, DLI, JMAA, KIKC, LSAE, SCST-1, SSC
Medical Office Assistant	CCC-1, CCC-2, CCC-3, RI, SWBC

PROGRAM	SCHOOL
Modelling	AAS-1, ASM, BPMI, CMSI-1, CP, CSSM-1, DMSL-1, EDSK, EFL-1, EHFM, ESI, ESIM, FSM, GMCM, ITM-2, JWSM-1, LAKE, MIMC, PPM, SFSH, SMCC, SMS-1, UMFS, VM, VWMS-1
Pharmacy Assistant	CBT-1, OBC-1
Private Investigation	CSPI
Retailing	CBC, SHA-1, WBS
Secretary – General	AOL-1, AOL-2, AOL-3, AOL-4, AOL-5, AOL-6, AOL-7, AOL-8, AOL-9, AOL-10, AOL-11, AOL-12, AOL-13, AOL-14, AOL-15, AOL-16, CBC, CBT-1, CIB-1, CIB-2, CIB-3, COND, COND-2, COND-4, COND-5, CSPI, DBCC, HBI, HC-1, HC-2, HER-1, HER-2, HST, JBA-1, MBS, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, RBC, RSC, SBA, SCBC, SHA-1, SWBC, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, WBC, WBS, WILBC
Secretary – Legal	CBT-1, CBT-2, CIB-1, CIB-2, CIB-3, CSPI, HBI, HER-2, HST, JBA-1, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, RBC, RSC, SBA, SBC, SHA-1, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, WBC, WBS, WILBC
Secretary – Medical	CBC, CBT-1, HBI, HER-2, JBA-1, OBC-1,OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, RBC, SBA, SHA-1, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, WBS
Security Services	OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8
Servicing – Small Appliance	AMJ
Ship's Crew	ULS
Tractor-Trailer Driver	ADT, ATDT, BDA, CBC, CPPD-1, DDTS-1, EOST, EOST-1, EOST-2, FWDS, GHA, JRTD-1, JTT, KRTS-1, MER-1, MER-2, MER-3, MHI-1, MIPT-1, MTDS-1, NET, NTTS-1, ODS-1, OTTD-1, PTDS, PTL, RCDT-1, RST, RST-2, SCOT, STT, TCV-1, TDS, TDTD, TFDA-1, TRIC-1, TRIC-2, TTS-1
Travel	ACA, BST, CBS-1, CBT-1, CCC-1, CCC-2, CCC-3, CIB-1, CIB-2, CIB-3, CTSC-2, CTSC-3, CTSC-H, DBCC, HC-1, HC-2, HSC, IIT-1, KTA, LTEC-1, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, RSC, SBI, SCBC, SWBC, TSB-1, TSB-3, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, TTCC, TTCC-2, WBS, WTI-1

PROGRAM	SCHOOL
Welding	GWS, ITT, KWW, KWW-2, LSW, L MSW, WAIB-1
Word Processing	AOL-1, AOL-2, AOL-3, AOL-4, AO AOL-6, AOL-7, AOL-8, AOL-9, AOL-10, AOL-11, AOL-12, AOL-1 AOL-14, AOL-15, AOL-16, AOTC, CBS-1, CBT-1, CIB-1, CIB-2, HBI, HC-1, HC-2, JBA-1, MARK, OBC- OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, OTS, PA PBC, RSC, SHA-1, SWBC, TSB-1 TSB-3, TSB-4, TSB-5, TSB-6, TS TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TSB-14, WBC, WBS, WILBC

Section 2: Correspondence Courses

PROGRAM	SCHOOLS
*Accounting	CC, GI-1, NC-1, PBI, SCBC
Art	GI-1, SCBC
Bartending and Bar Management	GI-1
Bookkeeping	CC, GI-1, NC-1, PBI, SBC
Business Administration/ Management (Fundamentals)	CC, GI-1, NC-1, SCBC
Computer Programming	SCBC
Cooking	SCBC
Creative Writing	SCBC
Drafting (Theory)	GI-1, SCBC
*Dental Office Assistant (Combination Course)	CCC-1
*Electrical (Combination Course)	AMJ, SCBC
*Electronics (Combination Course)	AMJ
Electronics (Basic)	GI-1, MCGR, SCBC
Estimator	GI-1
Export/Import (Sales and Service)	GI-1
Furniture Repair	SCBC
General Records Clerk	CC, GI-1
*Hotel Restaurant Operation & Management (Combination Course)	CCC-1
Journalism	GI-1
*Kennel Operator (Combination Course)	SCS
Legal Office Procedures	CC, NC-1
Marketing	GI-1
*Medical Office Assistant (Combination Course)	CCC-1

PROGRAM TYPE	SCHOOL
*Medical Terminology/ Medical Records Clerk	GI-1, NC-1
*Microprocessors/Computer Technology (Combination Course)	AMJ
Photography	GI-1, MCGR
Preapprenticeship (Theoretical Subjects)	GI-1, MCGR,SCBC
Preprofessional Technology (Theoretical Subjects)	GI-1, MCGR, NTS-1
Residential Interior Decorating	GI-1
Résumé Writing	GI-1
Robotics	MCGR,
Selling (Principles and Techniques)	GI-1
Secretary	CC, NC-1, SCBC
Shorthand	GI-1,
Small Business Management	GI-1, NC-1

PROGRAM TYPE	SCHOOL
Statistical Methods for Quality Control	GI-1
Store and Window Display	GI-1
T.V. Applications Technology (Combination Course)	AMJ
T.V./Communications Electronics	MCGR
Television Copy Writing	GI-1
Textiles (Fashion Design and Merchandising)	GI-1
Travel Office (Clerical Duties)	GI-1
Typing	GI-1, PBI,
Word/Data Processing	PBI

Note: A combination course requires practical experience and some in-school classes prior to completion.

*These courses have potential to lead directly to employment.

Section 3: Schools

AA Academy of Aesthetics
945 Barrydowne Road
Sudbury P3A 3T9
(705) 560-0260

AAS-1 Access Agency and School
134 Clarence Avenue
Ottawa K1N 5P6
(613) 230-3105

ACA Algonquin Careers Academy
969 Bronson Avenue
Suite 205
Ottawa K1S 4G8
(613) 230-8127

ADT Advance Driver Training
13 King Street
St.Catharines L2R 3H1
(416) 685-5556

AIHC-1 Associated Institute for Health Care
411 Parliament St.
Lower Level
Toronto M5A 3A1
(416) 971-4049

AL Academy of Locksmithing Inc. (The)
128 Manville Rd.
Unit #17
Scarborough M1L 4J5
(416) 288-8265

AMJ A.M.J. Electronic College
275 First Ave.
Ottawa K1S 2G7
(613) 238-2800

AOL-1 Academy of Learning
2190 Warden Avenue
Suite 210
Scarborough M1T 1V6
(416) 490-0617

AOL-2 Academy of Learning
26 Cumberland Street
Suite 201
Toronto M4W 1J5
(416) 969-8845

AOL-3 Academy of Learning
1140 Burnhamthorpe Road West
Suite 224
Mississauga L5C 4E9
(416) 566-0124

AOL-4 Academy of Learning
100 victoria Street North
Unit 1
Kithcener N2H 6R5
(519) 749-0318

AOL-5 Academy of Learning
7170 Warden Avenue
Unit 7
Markham L3R 8B2
(416) 940-8973

AOL-6 Academy of Learning
5657 Yonge Street
Suite 2
Willowdale M2N 5S1
(416)733-9954

AOL-7 Academy of Learning
45 Bramalea Road
Suite 110
Brampton L6T 2W4
(416) 458-0390

AOL-8 Academy of Learning
1550 Kingston Road
Suite 201
Pickering L1V 1C3
(416) 831-8167

AOL-9 Academy of Learning
1071 2nd Avenue East
Owen Sound N4K 2H8
(519) 371-6188

AOL-10 Academy of Learning
760 Brant Street
Unit 39
Burlington L7R 4B7
(416) 333-1335

AOL-11 Academy of Learning
2500 Eglinton Avenue East
Suite 204
Scarborough M1K 2R5
(416) 265-8973

AOL-12 Academy of Learning
136 Randall Street
Oakville L6J 1P4
(416) 338-6600

AOL-13 Academy of Learning
1315 Finch Avenue West
Suite 211
Downsview M3j 2G6
(416) 398-8973

AOL-14 Academy of Learning
144 Eglinton Avenue West
Suite 207
Toronto M4R 1A1
(416) 486-4747

AOL-15 Academy of Learning
4891 Dundas Street West
Suite 2
Etobicoke M9A 1B2
(416) 234-8973

AOL-16 Academy of Learning
57 Simcoe Street South
Suite H-1
Oshawa L1H 4G4
(416) 579-8973

AOTC Automated Office Training Centre (The)
11 Yorkville Avenue
Suite #502
Toronto M4W 1L3
(416) 927-0242

ASM	Agency School of Modelling (The) 394 Clarence Street Upper Level London N6A 3M7 (519) 432-3955
ATDT	Adanac Truck Driver Training Ltd. 2305 Markham Rd. #24 Scarborough M1B 2W3 (416) 754-2222
BB-1	Business Basics 370 Main Street East Suite 401 Hamilton L8N 1J6 (416) 628-8526
BDA	Brown's Driving Academy Limited 54B Market Square Trenton K8V 3V5 (613) 392-4273
BIEE-1	Britain Institute of Esthetics and Electrolysis 1325 Eglinton Avenue East Suite 214 Mississsauga L4W 4L9 (416) 629-8009
BPMI	Barrett-Palmer Models International Inc. 410 Queen Street Suite 1 Ottawa K1R 5A7 (613) 235-5145
BRA	Bradson Educational Services 440 Laurier Avenue West Suite 200 Ottawa K1R 7X6 (613) 232-1110
CAPS	Caps Health Care Aide School 250 Wyecroft Road Unit 8 Oakville L6K 3T7 (416) 844-5588
CARYL-1	Caryl Baker Visage School of Cosmetics 801 Eglinton Avenue West Toronto M5N 1E3 (416) 789-7191
CBC	Clarke Business College 214 Pinnacle Street Belleville K8N 3A6 (613) 966-9446
CBI	Chrissie's Beauty Institute of Ottawa 123 York Street Ottawa L1H 4G4 (613) 232-1052
CBS-1	Commercial Business School 2323 Yonge Street Suite 204 Toronto M4P 2C9 (416) 480-1546
CBS-2	Commercial Business School 90 Dundas Street West Main Lobby Mississauga L5B 1H7 (416) 896-0990
CBT-1	College of Business Training 2820 Danforth Avenue Toronto M4C 1M1 (416) 698-5588
CBT-2	College of Business Training 110 Dunlop St. West Barrie L4N 4Y4 (705) 721-1597
CBT-3	College of Business Training 390 McNabb Street Sault Ste. Marie P6B 1Z1 (705) 945-9459
CC	Canada College 3107 Bloor Street W. Suite 204 Toronto M8X 1E2 (416) 237-0162
CCC-1	Career Canada College (Toronto) 385 Yonge Street Suite 200 Toronto M5B 1S1 (416) 977-7797
CCC-2	Career Canada College (Hamilton) 1039 Upper James St. Hamilton L9C 3A7 (416) 387-5214
CCC-3	Career Canada College (Ottawa) 2315 Riverside Drive Billings Bridge Plaza Ottawa K1H 7X6 (613) 523-8355
CCMH	Canadian College of Massage & Hydrotherapy 85 Church Street P.O. Box 340 Sutton West L0E 1R0 (416) 722-3162
CHS	Constellation College of Hospitality 900 Dixon Road Etobicoke M9W 1J7 (416)675-2175
CIB-1	Canadian Institute of Business Ltd. 210 Dundas Street London N6A 5J3 (519) 672-9520
CIB-2	Canadian Institute of Business Ltd. 242 Indian Road South Suite 209, Eastland Plaza Sarnia N7T 3W4 (519) 332-8440
CIB-3	Canadian Institute of Business Ltd. 660 Ouellette Avenue Suite 206 Windsor N9A 1C1 (519) 258-7870
CIFD	Canadian Institute of Floral Design 4812 Yonge Street North York M2N-5M9 (416) 733-9968
CIHC-1	Canadian Institute of Health Care 1886 Eglinton Avenue West Suite 1, 2nd Floor Toronto M6E 2J6 (416) 785-5572
CLC-1	Computer Learning Centre (Peterborough) 296 Aylmer St. N. Peterborough K9J 3K7 (705)745-4804
CLC-2	Computer Learning Centre (Whitby) 121 Brock St. N. Whitby L1N 4H3 (416) 668-9713
CMSI-1	Carolyn's Modelling & Self Improvement Agency 700 Dundas Street East Suite 2 Mississauga L4Y 3Y5 (416) 890-2841
COND	CDI Career Development Institutes 280 Albert Street Suite 100 Ottawa K1P 5G8 (613) 236-8282
COND-2	CDI Career Development Institutes 75 Eglinton Avenue East 2nd Floor Toronto M4P 2Z9 (416) 485-8585
COND-4	CDI Career Development Institutes 33 City Centre Drive Suite 111 Mississauga L5B 2N5 (416) 848-8585
COND-5	CDI Career Development Institutes 44 Bond Street West Mall level, Units 11 & 12 Oshawa L1G 6R2 (416) 434-8585
CP	Celebrity Place 20 Ray St. Oshawa L1G 5N1 (416) 434-7813
CPPD-1	CP Professional Development Centre 150 Commissioners Street Toronto M5A 3R9
CSPI	Canadian School of Private Investigation & Security Ltd. 2828 Dufferin Street Toronto M6B 3S3 (416) 785-5701
CSSM-1	Cameo School of Self Improvement and Modelling Limited 379 Queen Street South Kitchener N2G 1W6 (519) 744-8989
CTI-1	Career Training Institute 2828 Dufferin Street Toronto M6B 3S3 (416)785-5701
CTSC-2	Canadian Travel School Corporation 110 Bloor Street West Lower Concourse Toronto M5S 2W7 (416) 968-6333
CTSC-3	Canadian Travel School (Hamilton) Corporation Robert Thompson Building 110 King St. West Suite 770 Hamilton L8P 4S6 (416) 521-1776
CTSC-H	Canadian Travel School Corporation Mississauga Executive Centre 4 Robert Speck Parkway #320 Mississauga L4S 1S1 (416) 276-8255
DBCC	Durham Business Computer College 1305 Pickering Parkway Suite 314 Pickering L1V 3P2 (416) 427-3010

DCT	Drake Computer Training 1135 Lansdowne Street West Suite 204 Peterborough K9J 7M2 (705) 745-3800
DCT-1	Drake Computer Training 310 Bagot Street Suite 110-111 Kingston K7K 3B5 (613) 542-6459
DDTS-1	Danbro Driver Training Services 333 Kenora Avenue Unit C Hamilton L8E 2W3 (416) 572-5232
DIT	DeVry Institute of Technology 2201 Finch Ave. W. Weston M9M 2Z4 (416) 741-9220
DLI	D'Arcy Lane Institute (The) 379 Dundas St. London Towers London N6B 1V5 (519) 673-3965
DMSL-1	Destinations Modelling School Limited Shoppers World Brampton 499 Main Street S. Suite 206 Brampton L6Y 1N7 (416) 457-8373
EDSK	Expressions by D.S.K. 32 Grand Avenue S. Cambridge N1S 2L6 (519) 622-2360
EE-1	Ecole d'Esthetique (L') 500-C Old St. Patrick St. Ottawa K1N 5L9 (613) 594-8230
EFL-1	Eleanor Fulcher Limited 220 Yonge Street P.O. Box 606 Toronto M5B 2H1 (416) 979-7577
EHFM	Elen Henderson Finishing & Modelling Agency Limited 900 Don Mills Road Don Mills M3C 1V8 (416) 444-1625
EOST	Eastern Ontario School of Trucking Ltd Sweetnam Drive R.R. # 2 Stittsville K2S 1G2 (613) 836-2391
EOST-1	North Eastern Transport Training Centre 109 Elm Street Sudbury P3C 1T4 (705) 673-0581
EOST-2	Eastern Ontario School of Trucking 191 Dalton Avenue Kingston K7L 5C8 ((613) 542-7[illegible]8
EPFI	Ellen Peterson Fashion Institute 2 Tanjoe Crescent North York M2M 1P7 (416) 222-4533
ESI	Elegance Schools Inc. 781 Richmond Street London N6A 3H4 (519) 434-1181
ESIM	Esprit School of Self Improvement & Modelling Inc. (The) 349 Woolwich Street Guelph N1H 3W4 (519)836-5630
FIC	Fashion Institute of Canada (The) 44 Eglinton Avenue West Suite 2/F Toronto M4R 1A1 (416) 481-6477
FSM	Flare School of Modelling 444 Timothy Street Newmarket L3Y 4R6 (416) 898-1149
FWDS	Fifth Wheel Driving School N 1/2 Lot 8 Con2 Harley Twp. P.O. Box 2266 New Liskeard P0J 1P0 (705) 647-7202
GHA	Grand High Academy Truck Driver Training 1454 Dundas Street East Suite 103 Mississauga L4X 1P8 (416) 848-5266
GI-1	Granton Institute of Technology Ltd. 263 Adelaide Street West Toronto M5H 1Y2 (416) 977-3929
GIN-1	Gina's School of Aesthetics and Electrolysis 1801 Eglinton Ave. W. Suite 212 Toronto M6E 2H8 (416) 782-5737
GIN-2	Gina's School of Aesthetics and Electrolysis 6 Regina Street N. Waterloo N2J 2Z8 (519) 886-2998
GMCM	Gloria Moody Charm and Modelling School 1420 Isabella Street Thunder Bay P7E 5B9 (807) 622-9084
GWS	General Welding School Ltd. 61-63 Jarvis St. Toronto M5C 2H2 (416) 363-7635
HBI	Halton Business Institute 460 Brant Street Suite 204 Burlington L7R 4B6 (416) 637-3415
HC-1	Heritage College 158 1/2 Rideau Street Ottawa K1N 5X6 (613) 230-9024
HC-2	Heritage College 80 King Street St. Catharines L2R 7G1 (416) 641-1500
HCVC	Health Care Vocational Centre 1992 Yonge Street Suite 306 Toronto M4S 1Z7 (416) 322-6339
HER-1	Herzing Institutes of Canada Limited 396 Cooper Street 3rd Floor Ottawa K2P 2H7 (613) 234-8099
HER-2	Herzing Institutes of Canada Limited 164 Eglinton Avenue East Toronto M4P 1G4 (416) 484-6996
HIA-1	Harris Institute of the Arts 296 King Street East Toronto M5A 1K4 (416) 367-0178
HIC	Institute for Computer Studies (The) 155 Gordon Baker Road North York M2H 3N7 (416) 499-2855
HSC	Hamilton School of Careers 288 West 2nd Street Hamilton L9C 3G9 (416) 575-8064
HST	Huntsville Secretarial Teaching Service 19 Rogers Road Huntsville P0A 1K0 (705) 789-4267
IAMD	International Academy of Merchandising & Design (Canada) Ltd. 31 Wellesley Street East Toronto M4Y 1G7 (416) 922-3666
IIT-1	International Institute of Travel Suite 302 1240 Bay Street Toronto M5R 2A7 (416) 924-2271
INTE	International School of Haute Esthetique Edith Serei Toronto Inc. 895 Yonge Street Toronto M4W 2H2 (416) 924-4382
ITM-2	International Top Models 185 Somerset St. W. Suite 201 Ottawa K2P 0J2 (613) 236-9575
ITT	Institute of Technical Trades Limited 115 Shorncliffe Road Toronto M8Z 5K7 (416) 234-5172
JBA-1	Johnson Business Academy Limited (The) Park Place 35 King St. East Sutie 201 Hamilton L8N 4A9 (416) 523-4494
JMAA	Jean Macdonalds Advanced Academy of Make-Up & Esthetics 730 Yonge St. Toronto M4Y 2B7 (416) 967-9107
JRTD-1	J. and R. Transport Driver Training Schools Inc. 1439 Youville Drive Orleans K1C 4M8 (613) 830-9680

JTT	Jessie Truck Training School 1310 Dundas street East #215 Mississauga L4Y 2C1 (416) 896-2771
JWSM-1	Judy Welch School of Modelling 1055 Yonge Street Suite 210 Toronto M4W 2L2 (416) 922-5839
KIKC	Kikkawa Shiatsu School Inc. 1 Riverview Gardens Toronto M6S 4E4 (416) 762-4857
KRTS-1	Kim Richardson Transportation Specialists Inc. 592 King William St. Caledonia N0A 1A0 (416) 765-3445
KTA	Knox Travel Academy 2 Bloor Street West # 1720 Toronto M4W 3E2 (416) 323-0001
KWW	K-W Welding and Fitting Academy 440 Phillip Street Unit 13 Waterloo N2L 5R9 (519)746-3431
KWW-2	K-W Welding and Fitting Academy 100 Crimea Road Guelph N1H 2Y6 (519) 763-9592
LTS	K-W Welding and Fitting Academy 90 Charterhouse Crescent London N5W 5V8 (519) 455-8460
LACC	L'Academie des Couturiers Canadiens 447 Sussex Drive Ottawa K1N 6Z4 (613) 238-5233
LAI-1	The Laboratory Arts Institute Inc. 1333 Neilson Road Thornhill M1B 4Y6 (416) 287-1010
LAKE	Lakehead Modelling School & Agency 176 Rupert Street Thunder Bay P7B 3X1 (807) 344-5973
LMSA	Luba Mera School of Aesthetics 515 John Street Burlington L7R 2L1 (416) 681-7882
LSAE	Lam School of Advanced Esthetics 916 Markham Road Scarborough M1H 2Y3 (416) 439-3350
LSW	Lincoln School of Welding R.R. # 2 Trenton K8V 5P5 (613) 392-4826
LTEC-1	London Travel Education Centre 155 York Street London N6A 1A8 (519) 438-7614
MARK	Markham Word Processing Centre 333 Denison Street Unit 19 Markham L3R-2Z4 (416) 479-1811
MAS	Matthews Auctioneering School 14 Toronto Street Flesherton N0C 1E0 (519) 924-2621
MBS	Metzler Business School 214 Concession Street Kingston K7L 2B5 (613) 546-1254
MCGR	McGraw-Hill Continuing Education Centre 330 Progress Avenue Scarborough M1P 2Z5 (416)293-8787
MER-2	Merv Orr's Transport Driver Training School 16 Corydon Place Cambridge N3H 4S6 (519) 623-2430 Toll-free: 1-800-265-3559
MER-3	Merv Orr's Transport Driver Training School 2415 Holly Lane Suite 200 Ottawa K1V 7P2 (613) 523-3489
MHI-1	Materials Handling Institute of Canada Limited 100 Westmore Drive Unit 4 Rexdale M9V 5C3 (416) 743-4884
MIMC	Moda Image and Model Centre 2411 Yonge Street Suite 202 Toronto M4P 2E7 (416) 482-6744
MIPT-1	Markel Institute of Professional Transport Training Nicholas Beaver Road R.R. #3 P.O. Box 150 Guelph N1H 6J6 (519) 763-2383
MSA	Mermaid School of Aesthetics 2303 Howard Avenue Windsor N8X 3V4 (519) 253-1324
MSSC	Marvel School of Skin Care & Cosmetics 27 Yorkville Ave. Toronto M4W 1L1 (416) 923-0991
MSW	Mountain School of Welding 1495 Upper James Street Hamilton L9B 1K2 (416) 383-7827
MTDS-1	Moga Truck Driving School 1850 Albion Road Unit 2 Rexdale M9W 6J9 (416) 674-0216
NAI-1	Nail Academy Inc. 1425 Dundas Street E. Suite 210 Mississauga L4X 1L3 (416) 238-6625
NC-1	National College 170 St. George Street #1000 Toronto M5R 2M8 (416) 925-9155
NET	North Eastern Transport Training Centre Box 717 Timmins P4N 7G4 (715) 267-7501
NEW	New School of Complete Success Models Inc. (The) 6249 St. John Street Niagara Falls L2J 1C6 (416) 374-3069
NIB	National Institute of Broadcasting 1498 Yonge St Toronto M4T 1Z6 (416) 922-2793
NSV-1	New Skills Vocational School 2820 Danforth Avenue Toronto M4C 1M1 (416) 698-5588
NSV-3	New Skills Vocational School c/o Fairview Home 799 Concession St Cambridge N3H 4L1 (416) 421-0372
NT-1	Northern Trainers R.R. #1, District of Sudbury Worthington P0M 3H0 (705) 866-2264
NTTS-1	National Truck Training School 1055 Shawnmarr Road, Unit #158 Mississauga L5H 3V2 (416) 274-0034
0AC	Office Automation Education Centres 25 King Street W. #1325/1400 Commerce Court North Toronto M5L 1E9 (416) 862-8121
OBC-1	Ontario Business College 12 Moira Street E. Belleville K8P 1R9 (613) 962-9157
OBC-3	Ontario Business College Lougheed Campus 445 King Street West Kitchener N2G 1C2 (519) 579-3160
OBC-4	Ontario Business College Richmond Centre 54A Centre Street North Oshawa L1G 4B5 (416) 576-9175
OBC-5	Ontario Business College Ottawa Campus 30 Murray Street Ottawa K1N 5M4 (613) 236-0444
OBC-6	Ontario Business College Sudbury Campus 76 Elm Street West Sudbury P3C 1T2 (705) 673-8213
OBC-7	Ontario Business College Thunder Bay Campus 115-117 North May Street Thunder Bay T7C 3N8 (807) 623-2120
OBC-8	Ontario Business College Windsor Campus 2462 Howard Avenue Windsor N8X 3V6 (519) 252-3424

OBC-9 Ontario Business College
Laroque-Lafortune Campus
30 Murray Street
Ottawa K1N 5M4
(613) 236-0443

OBC-H Ontario Business College (Head Office)
158 George Street
Belleville K8N 3H1
(613) 962-5308

OBE Ottawa School of Electrolysis
1226A Wellington St.
Ottawa K1Y 3A1
(613) 722-0860

ODS-1 Ontario Driving School
266 Wellington Street
London N6B 2L5
(519) 673-4360

OIAR Ontario Institute of Audio Recording Technology
500 Newbold Street
London N6E 1K6
(519) 686-5010

OSIL-1 Osilla Institute for Health Personnel Ltd.
428 Parliament Street
Toronto M5A 3A2
(416) 960-1810

OSIL-2 Osilla Institute for Health Personnel Ltd.
131 John Street South
#108
Hamilton L8N 2C3
(416) 529-4507

OTS Olsten Word Processing
20 Hughson St. S.
Suite 401
Hamilton L8N 2A1
(416) 523-5383

OTTD-1 The Old timer's Truck Driving School Inc.
25 Pheasant St.
Whitby L1N 7E7
(416) 666-9797

PARK Park Business College
145 King Street East
Hamilton L8N 1B1
(416) 528-1108

PBC Pathfinder Business College School
1 Elmhurst Avenue
North York M2N 1R3
(416) 225-3737

PBI Practical Business Institute (The)
3038A Bloor St. West
Toronto M8X 1C4
(416) 239-9919

PNS PNS Health Care Aide School
89 Queensway West
Suite 100
Mississauga L5B 2V2
(416) 896-0200

PPM Penelope Professional Modelling School and Agency Limited
4141 Yonge Street
Suite 104
North York M2P-2A8
(416) 733-4440

PSEB Pebec School of Esthetics & Beauty Therapy
179 King Street
2nd Floor
London N6A 1C9
(519) 432-7162

PSMA Professional School of Make-Up Artistry
151 John Street
Suite 304
Toronto M5V 2T2
(416) 979-2717

PTDS Punjab Truck Driving School
41 Bramalea road
Brampton L6t 2W4
(416) 792-0052

PTL PTL Truck Driving School
Lot 37 & 38 , Sandwich West Tsp
P.O. Box 7162
Windsor N9C 3Z1
(519) 734-0080

RAPC-1 Recording Arts Program of Canada
28 Valrose Drive
Stoney Creek L8E 3T4
(416) 662-2666

RBC Retter Business College Inc.
120 Eglinton Ave. E.
Suite 215
Toronto M4P 1E2
(416) 481-7111

RCC RCC School of Electronics Technology
243 College Street
Toronto M5T 2Y1
(416) 598-4004

RCDT-1 Richardson Commercial Driver Training Services Ltd.
Group Box #2
Box 1, R.R. #2
Caledonia N0A 1A0
(416) 765-5200

RETS Radio Electronic Television School
2057 Danforth Ave.
Suite 200
Toronto M4C 1J8
(416) 698-5287

RI Robetech Institute Inc.
1001 Woodbine Avenue
Toronto M4C 4C2
(416) 467-7779

RSC Richmond School of Commerce
43 Eglinton Avenue East
Suite 603
Toronto M4P 1A2
(416) 486-6772

RSEB Rachelle's School of Electrolysis & Beauty Care
1-425 McArthur Road
Ottawa K1K 1G5
(613) 748-3030

RST Rodgers School of Truck Driver Training Ltd.
400 Alliance Avenue
Toronto M6N 2H8
(416) 769-3546

RST-2 Rodgers School of Truck Driver Training Ltd.
Highview Mall
5 Highview Avenue, Unit #3
CumberlandBeach L0K 1G0
(416) 762-6721

SBA Sterling Business Academy Inc.
637 Dundas Street
3rd Floor
London N5W 2Z1
(519) 433-3936

SBC Success Business College
20 Eglinton Avenue East
Suite 201
Toronto M4P 1A9
(416) 487-6493

SBI Syms Business Institute
2289 Fairview Street
Unit 106
Fairview Business Park
Burlington L7R 2E3
(416) 639-4473

SCA School of Computer Accounting
4850 Keele Street
North York M3J 3K1
(416) 736-0123

SCBC St. Catharines Business College
101 King Street
P.O. Box 1473
St. Catharines L2R 7J9
(416) 685-5421

SCOT Scott Transport Driver Training Centre
1593 Wilson Avenue, Suite 210
Downsview M3L 1A5
(416) 240-8081

SCS School of Canine Science (The)
R.R. #2
Shelburne L0N 1S0
(519) 925-2658

SCST-1 Sutherland-Chan School and Teaching Clinic
732 Spadina Avenue
Toronto M5S 2J2
(416) 924-1107

SFSH Stevens Finishing School of Hamilton
630 Main Street E.
Hamilton L8M 1S4
(416)528-5901

SHA-1 Shaw Central College
44 Eglinton Avenue West
2nd Floor
Toronto M4R 1A1
(416) 481-6477

SMA The School of Makeup Art Ltd.
72 Carlton Street
Suite 200
Toronto M5B 1L6
(416) 961-1300

SMCC Sutherland's Modelling and Career Centre
20 Eglinton Avenue East
Suite 400
Toronto M4P 1A9
(416) 488-0900

SMS-1 Stars Modelling School
1400 Plains Road East
Burlington L7R 3P8
(416) 333-4700

SOSA Southwestern Ontario School of Auctioneering
P.O. Box 145
Innerkip N0J 1M0
(519) 469-3936

SSC Shiatsu School of Canada Inc.
547A College St.
Toronto M6G 1A9
(416) 323-1818

ST-1	SoftTrain (East) 3852 Finch Avenue East Unit 207 Scarborough M1T 3T9 (416) 297-1945
STT	Stansell Truck Training Fifth Street Box 53 Straffordville N0J 1Y0 (519) 866-3790
SWBC	Southwestern Business College Inc. 111 Waterloo St. London N6B 2M4 (519) 679-7346
TBSC-1	Thunder Bay School of Cosmetology and Electrology 40 North Algoma Street Thunder Bay P7A 4Z3 (807) 345-5632
TBT	Toronto Bartenders Training School 617A Bloor St. West Toronto M6G 1K8 (416) 531-3027
TDI	The Data Institute 10 St. Mary Street, #603 Toronto M4Y 1P9 (416) 920-0307
TDS	Techni-Data Institute of Canada 120 Watline Ave., #4 Mississauga L4Z 2C1 (416) 890-0400
TDTD	Techni-Data Truck Driving School 269 Main Street West Suite 107 North Bay P1B 2T8 (705) 476-8188
TFDA-1	10-4 Driving Academy in Association with Team Effort Services 399 Mooney Street P.O. Box 3416 Thunder Bay P7B 5J9 (807) 345-0281
TMAS	Toronto Make-Up Artistry School 282 & 278 Dundas Street East Toronto M5A 1Z9 (416) 967-1800
TRIC-1	Tri-County Vocational Driver Training Schools Inc. 2411 Eagle Street North Unit 1, R.R. #32 Cambridge N3H 4R7 (519) 653-1700
TRIC-2	Tri-County Vocational Driver Training Schools Inc. 2404 Haines Road, Unit 8 Mississauga L4Y 4B8 (519) 667-2905
TRW	Toronto Recording Workshop 374 Bering Avenue Toronto M8Z 3A9 (416) 237-0101
TSB- 1	Toronto School of Business (The) 5635 Yonge Street Willowdale M2M 3S9 (416) 221-4386
TSB- 2	Toronto School of Business (The) 2436 Yonge Street Toronto M4P 2H4 (416) 480-2614
TSB- 3	Toronto School of Business (The) 25 Hughson Street South Hamilton L8N 2A5 (416) 521-2112
TSB- 4	Toronto School of Business (The) 165 Dundas St. West Mississauga L5B 2N6 (416) 273-7706
TSB- 5	Toronto School of Business (The) 2432 Eglinton Ave. East Unit # 6 Scarborough M1K 2P8 (416) 288-5333
TSB- 6	Toronto School of Business (The) 771 Yonge Street Toronto M4W 2G4 (416) 963-5913
TSB- 7	Toronto School of Business (The) 2323 Bloor St. West Etobicoke M6S 1P2 (416) 766-6015
TSB- 8	Toronto School of Business (The) 1450 Kingston Road Suite 13 Pickering L1V 1C1 (416) 420-1344
TSB- 9	Toronto School of Business (The) 301 Laurier Street W. 3rd Floor Ottawa K1P 6M6 (613) 233-4533
TSB-10	Toronto School of Business (The) 389 Main Street North Brampton L6X 1N7 (416) 454-5932
TSB-11	Toronto School of Business (The) 71 King Street St. Catharines L2R 3H7 (416) 641-5511
TSB-12	Toronto School of Business (The) 120 Ottawa St. North Eastwood Square Mall Kitchener N2H 3K4 (519) 745-1140
TSB-13	Toronto School of Business (The) 11 Simcoe Street North Oshawa L1G 4R7 (416) 723-1163
TSB-14	Toronto School of Business (The) 272 Dundas Street 3rd Floor London N6B 1T6 (519) 667-2905
TSB-H	Toronto School of Business (Head Office) North American Life Centre Xerox Tower 5650 Yonge St. North York M2M 4G3 (416) 733-4452
TSFD-1	Toronto School of Floral Design 2628 Yonge Street, Suite #2 Toronto M4P 2J4 (416) 482-3003
TTCC	Travel Training Career Centre Ltd. 2160 Yonge Street Toronto M4S 2A8 (416) 481-2265
TTCC-2	Travel Training Career Centre Ltd. 33 City Centre Drive Mississauga L5B 2N5 (416) 566-9617
TTHS	T & T Hospitality Services R.R. #2 Carleton Place K7C 3P2 (613) 257-7871
TTS-1	Transport Training Systems Inc. 5610 Timberlea Blvd. Mississauga L4W 4M6 (416) 672-7070
ULS	Upper Lakes Pre-Sea Training 49 Jackes Avenue Toronto M4T 1E2 (416) 920-7610
UMFS	Universal Mannequenn Fashion School & Model Agency 343 Richmond Street Suite 102 London N6A 3C2 (813) 673-1234
VERS	Versailles Academy of Make-Up Arts & Esthetics 35 O'Connor St., Suite 203 Ottawa K1P 5M4 (613) 235-1825
VM	Vogue Models 237 Locke Street South Suite 301-302 Hamilton L8P 4T4 (416) 523-5077
VWMS-1	Verna Williams Modelling & Charm School 2011 James Street Burlington L7R 1H1 (416) 632-1065
WAIB-1	Welding At Its Best Inc. 28 Micro Court, Unit 6 London N6E 2T5 (519) 668-5330
WBC	Warner Business College 89 Wyndham Street North Unit 303 Guelph N1H 4E9 (519) 824-7461
WBS	Westervelt Business School Limited 190 Wortley Road London N6C 4Y7 (519) 679-0780
WILBC	Willis Business College Ltd 85 O'Connor Street Ottawa K1P 5M6 (613) 233-1127
WTI-1	Westervelt Travel Institute 190 Wortley Road London N6C 4Y7 (519) 679-0780
ZSEC	Zehava School of Esthetics and Cosmetology 4544 Dufferin Street Suite 205 Downsview M3H 5X2 (416) 665-8030

Distance Education and Correspondence Study

Distance education offers an accepted alternative to enrolment in regular full- or part-time study programs. People who are unable to attend regular school sessions have the option of continuing their studies in a variety of fields and at different levels. Many people who have missed higher education in the past, who need upgrading, refresher, or work-related courses, or who, out of interest, wish to continue their education, benefit from correspondence study.

In Ontario, distance education is offered by:

1) colleges of applied arts and technology
2) universities
3) accountants' organizations (Certified Accountants Association of Ontario, Institute of Chartered Accountants of Ontario, Society of Management Accountants of Ontario)
4) Contact North
5) Independent Learning Centre (Ministry of Education)
6) Michener Institute for Applied Health Sciences
7) registered private vocational schools (private correspondence schools)

The Ministry of Education's Independent Learning Centre offers elementary and secondary school correspondence courses. Private vocational schools provide those unable to attend school full-time with the opportunity to gain job-entry skills. University correspondence courses offer an alternative method of study for degree credit or a professional upgrading of general interest, while colleges of applied arts and technology offer correspondence courses primarily in the business field.

Learning by correspondence allows a certain freedom with respect to time and place of study and study habits. However, students thinking about correspondence study should carefully consider the discipline and motivation required to progress without personal contact with teachers and fellow students and without the benefit of school facilities.

• Colleges of Applied Arts and Technology Offering Correspondence Courses/Distance Education

Learning by correspondence through colleges of applied arts and technology is little used as an alternative method of study. In keeping with the colleges' mandate for increased community involvement, emphasis has been placed on part-time and continuing education as the alternative to regular day-time study. Part-time and evening programs are offered by all the colleges at their various campus locations.

There are, however, colleges that do offer correspondence study as an additional study opportunity. Admission requirements are similar to college entrance requirements: satisfactory standing in Ontario Grade 12 or proof of qualification as a mature student (19 years of age and over).

Algonquin College

Algonquin offers a number of distance learning programs through various divisions of its Continuing Education Department. The business division offers 42 credit courses, including accounting, business quantitative analysis, data processing, economics, English, finance, law, management studies, and marketing. Participants may work toward a business studies certificate by successfully completing eight compulsory courses and four optional courses in the selected major area. Details on business distance learning may be obtained from the co-ordinator at (613) 727-7667.

The health sciences division offers courses in both the palliative care multidiscipline program (370 hrs) and the working with the terminally ill multidiscipline program (270 hrs). The prerequisite course in orientation to palliative care is also available each September, January, and April. Details may be obtained from the co-ordinator at (613) 727-7618.

Teachers/trainers of adults is a self-directed, competency-based two-year program in teacher training. This program is available to practising trainers or adult educators and is delivered worldwide. Participants can register at any time and can be granted up to 300 points in the 900-point program for advanced standing. Further information may be obtained from the co-ordinator at (613) 727-7618.

The applied arts section offers a museum technology diploma program as a self-directed learning program for museum workers. Museums or museum associations may select a set of competencies/skills for their in-service training programs that can be subsequently applied toward the museum technology diploma. Further information may be obtained by calling (613) 727-7612.

Further Information

School of Continuing Education, Central Office
Algonquin College of Applied Arts and Technology
1385 Woodroffe Ave., Room C230
Nepean, Ontario
K2G 1V8
Telephone (613) 727-7666

Cambrian College

Cambrian offers a number of programs through teleconferencing and computer conferencing: ambulance and emergency care, *certificat en éducation des adultes*, counselling and development, early childhood education (diploma program), general business (two-year), *gérontologie multidisciplinaire certificat à l'intention des diplômés*, multidisciplinary gerontology program (postdiploma), Native community care, teachers of adults (certificate program), *techniques pour services de développement*, working with the aged (postcertificate).

Further information

George Tompkins
Co-ordinator, Distance Education
Cambrian College of Applied Arts and Technology
Telephone (705) 566-8101 ext. 7808

Centennial College

Centennial offers a correspondence program, ophthalmic assistant home study, which is endorsed by the Canadian Opthalmological Society. Entrance requirements for the two-phase certificate program are: 1) current employment under the supervision of an ophthalmologist, and 2) an OSSD (or equivalent) or mature student status.

The $75 fee for each course includes course materials (except textbooks) and examinations.

Further information

Co-ordinator, Health Programs
School of Continuing Education Division
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 3404

La Cité collégiale

For information on distance learning opportunities at La Cité collégiale, contact

Registrar/Admissions
La Cité collégiale
2445 Saint-Laurent boulevard
Ottawa, Ontario
Telephone (613) 744-5050

Conestoga College

Conestoga offers several non-credit courses, a preparatory home-study program, and some programs for RNs through distance learning. Students may register for non-credit courses at the start of each semester. Instructor support is available by telephone and written correspondence. Optional workshops offering students the opportunity to meet instructors and other students are available for some courses. The cost of tuition is $1.60 per hour; learning packages and textbooks are extra.

Conestoga's home study program provides students with an opportunity to gain the mathematics and English requirements necessary for admission to postsecondary programs. After brief initial testing, students work on their assignments at home. Some tests must be written at the college. The tuition fee is $30 for a 10-week program; this fee does not include the cost of textbooks. There are no entrance requirements, but all candidates are interviewed by teachers before registration. Students may enrol at any time, providing the program is not filled.

Specific courses in the registered nurse – refresher program and registered nurse – critical care nursing program are offered through distance education. The 312-hour refresher program is designed to assist registered nurses who have not actively practised nursing for a period of time to demonstrate competence in accordance with the current standards of nursing practice of the College of Nurses of Ontario.

The cost is $1.60 per hour. The 407-hour critical care nursing program provides registered nurses with specialized knowledge and skills in critical care nursing. The cost is $1.60 per hour.

Further information
Conestoga College of Applied Arts and
Technology
Continuing Education
299 Doon Valley Dr.
Kitchener, Ont. N2G 4M4
Telephone (519) 748-5220 ext. 326, 414

Confederation College
Distance Education, Confederation's continuous learning system, provides an opportunity for Northwestern Ontario residents to enrol in individual subjects or earn a college certificate or diploma by arranging study around a personal schedule.

Each community participating in the program has a learning centre established for the duration of the course. This learning centre is accessible 12 to 24 hours per day. It may be at a college campus, Contact North site, or local school. Weekly group meetings and scheduled group tutorial sessions with instructors are arranged to accomplish group learning tasks and collectively solve any problems that occur.

Certificates may be earned in various areas, including ambulance and emergency care, core business, critical care nursing, developmental services worker, early childhood education, home support level II, hotel operations, multidisciplinary gerontology, RNA refresher, working with the aged – postcertificate.

Diplomas may be earned in various areas, including general business, business accounting, business administration, general vocational preparation.

Further information
Supervisor, Distance Education
Curriculum Development/Distance
Education Department
Confederation College of Applied Arts and
Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6346
Ontario residents call toll-free
1-800-465-5005

Fanshawe College
Fanshawe offers distance learning courses in affiliation with the Institute of Municipal Assessors of Ontario. It also offers distance learning courses for those who wish to meet the technician or technologist certification requirements of the Ontario Association of Certified Engineering Technicians and Technologists. In addition, a range of mathematics and other technical courses is available on a home study basis. These courses require some tests to be written at the college.

Further information
Distance Learning Department
Fanshawe College of Applied Arts and
Technology
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4439

Humber College
Humber offers early childhood education programs through distance education for students living in areas with no access to early childhood education training. The programs are based on the first year of the two-year programs. Humber also offers distance education in occupation safety/hygiene and telecommunications.

Further information
Continuous Learning
Humber College of Applied Arts and
Technology
Box 1900
Rexdale, Ontario
M9W 5L7

Northern College
Northern's Kapuskasing campus offers an independent and distance-learning program leading to a two-year business administration diploma. Twenty courses are required to complete the diploma program. Students may select courses from a general business administration program or may concentrate in the travel and tourism option.

Each course consists of a study guide and a textbook. Some courses have videotapes. Two courses are available in French.

Tuition fee is $96 per course, plus the cost of a study guide and textbook. There is a refundable deposit for videotapes.

Further information
Centre for Independent Learning and
Correspondence Courses
Kapuskasing Campus
Northern College of Applied Arts and
Technology
3 Aurora Avenue
Kapuskasing, Ontario P5N 1J2
Telephone (705) 335-8504, ext. 9

St. Lawrence College
St. Lawrence College, Kingston offers a 15-week correspondence course in family home day care; three correspondence programs, municipal administration, tax administration, and municipal counsellors, for municipal clerks; an animal nutrition correspondence course; and a part-time, three-year distance education program, laboratory animal worker.

Further information
Registrar
St. Lawrence College of Applied Arts and
Technology
King and Portsmouth
Kingston, Ontario K7L 5A6
Telephone (613) 544-5400

St. Lawrence College, Brockville offers a diploma program in registered nurse – occupational health nursing. This program consists of seven courses available through correspondence and a field work assignment that can be completed at the student's location.

Further information
St. Lawrence College of Applied Arts and
Technology
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

Sault College
Sault offers a number of programs through independent study and audio and video teleconferencing. Programs available include multidisciplinary gerontology, working with the aged, pulp and papermaking operations, teachers of adults, environmental engineering technology, R.N. critical care, and R.N.A. refresher. Further information is available through the distance education office, Sault College of Applied Arts and Technology, (705) 759-6774 ext. 612.

Seneca College
Seneca's Continuing Education Division offers a building environmental systems course through correspondence study. This course, which covers subjects such as pipe systems and water treatment, is designed for people who service large office and/or apartment building complexes.

Further information
Registrar
Seneca College of Applied Arts and
Technology
1750 Finch Avenue East
Willowdale, Ontario M2J 2X5
Telephone (416) 493-4144

Sheridan College
Sheridan presents videoconferences and teleconferences on campus and on site in industry.

Further information
Distance Education and Teleconference
Office
Sheridan College of Applied Arts and
Technology
1430 Trafalgar Road
Oakville, Ontario L6H 2L1
Telephone (416) 849-2870

• Universites Offering Correspondence Courses/Distance Education

The number of university subjects that may be studied by correspondence is limited, and the number of credits that can be obtained is usually less than that required for a degree or diploma. At some point, those who take correspondence courses in order to earn a degree or diploma may have to attend regular classes.

The University of Waterloo, Queen's University, and Laurentian University, because of the range of courses available through correspondence, are able to grant degrees through courses taken entirely by correspondence. Because students do not attend classes on the university campus, there is little or no direct interaction with other members of the class or with teachers, and the use of the university library is limited. However, most universities attempt to contact students who experience extreme difficulty, and some institutions offer weekend seminars two or three times a year to assist with problems. Most universities also provide reading lists to encourage the use of alternative resource centres.

University correspondence courses are usually closely tied to the normal academic calendar. Admission requirements, tuition fees, and academic standards are similar to those for regular students.

Academic programs taken through correspondence may be pursued over an extended period of time, but the normal workload per term is usually a maximum of two courses. Students may, in most cases, combine and/or alternate correspondence work with regular attendance, to comply with the institution's residence requirement for the granting of a degree.

Each course normally requires a final exam that counts as a percentage of the final grade. These are written at a major centre close to students' homes or in isolated areas under the supervision of a responsible person appointed by the university.

Students wishing to take correspondence courses at one university for credit toward a degree at another institution should consult the institutional authorities. Some universities may not recognize correspondence courses as credit toward a degree.

Correspondence courses are also offered by universities throughout Canada, credit for which may be accepted by an Ontario university granting a degree.

For more information on courses, application procedures, and types of credit granted, students should consult the individual institutions.

Carleton University

Carleton offers degree credit courses through television (ITV) over local cable channel 15. They resemble on-campus courses in content and requirements and are drawn from the faculties of arts, social science, science, and architecture. Courses are carefully selected to provide a range of disciplines that could be accredited to several certificates and degree programs. However, it is difficult to obtain a degree through enrolment only in ITV courses. Enrolment is open to anyone holding the necessary course prerequisite and is not contingent upon admission to a degree program.

Every effort is made to make distance study available in other centres. Outlying cablevision companies carry selected ITV courses, and for students who live outside the areas receiving the cablevision signal, videotapes of courses can be sent to groups of students prepared to register. Enrolment and the return of completed assignments in ITV courses can be conducted through the mail. Although students are asked to come to campus for final examinations, alternative arrangements can be made for special cases. An adviser is available for telephone consultation to help distance education students with course-related concerns.

Courses begin in September, January, and May, and enrolment deadlines, academic regulations, and fees are published in the Carleton University calendar.

Further information
School of Continuing Education
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 788-3500

University of Guelph

Guelph's School of Continuing Education consists of five divisions: general studies, continuing education, independent study, distance education, and international training.

The General Studies Division is responsible for administering the general studies program, which allows mature students to take degree credit courses on a full- or part-time basis. This division works closely with the colleges to develop and promote evening programs of study.

The Continuing Education Division of the school provides non-traditional learning opportunities for those who are not interested in pursuing degree studies and who have particular educational objectives. Courses and programs cover a broad spectrum of learning needs. Generally, and with the exception of the certificate programs, continuing education courses have no entrance requirements, prerequisites, or examinations.

The community education program is designed primarily for adult learners in the Guelph area and surrounding communities. Opportunities are afforded for adult learners to pursue leisure interests, improve skills, broaden understanding and awareness, meet other adults with similar interests, and generally to use and enjoy "their" university.

The professional development program is related to the academic interests and research scope of the university. Certificate programs include French as a second language, personnel administration, human resources management, communication, managing people at work, and child administration.

The Independent Study Division, with the support of the Ontario Ministry of Agriculture and Food, offers courses through correspondence in agriculture and horticulture.Several agriculture courses in French are available through Independent Study's Teleformation department. These are diploma-level courses, as well. Stand-alone education videotapes are also provided by the division.

The International Training Division provides short, intensive training programs for international students and agencies in both on-campus and off-campus locations.

The Distance Education Division facilitates the delivery of several degree credit courses to students, who typically live off-campus. The division is the focal point of this activity, providing information, student support, course preparation, and administration. The correspondence courses available at the degree level include agricultural economics, child studies, consumer studies, English, extension education, family studies, financial accounting, basic French, organic chemistry, pathology, precalculus mathematics, nutrition, philosophy, political studies, psychology, and statistics. Although an entire degree is not available through correspondence, students are able to benefit by taking courses from some of the unique departments of this university.

Further information
School of Continuing Education
Room 142, Johnston Hall
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-1330

Lakehead University

Lakehead's distance education program is designed to meet the needs of students in the region who are unable to attend classes on-campus or at one of Lakehead's off-campus locations. Students receive a learning package consisting of audio or video cassettes with accompanying notes, guides, and visual aids. In addition, courses are supported by audio teleconferencing, telephone tutorials, or group seminars. Students requiring playback equipment for audio, video, or computer programs are able to use learning centres at access sites in communities across the northwest.

Lakehead offers degree credit courses in the arts and sciences. Off-campus courses are offered during the spring and summer sessions at centres throughout northwestern Ontario.

Students who wish to take correspondence or off-campus courses from Lakehead University must meet general admission requirements.

Tuition fees for distance education courses (1989-90): Undergraduate part-time students (Canadian citizens and landed immigrants), full course $309, half course $158; part-time students on student visas, full course $1 149, half course $577.

A $40 refundable deposit is required for the audio-visual materials, payable at the time of registration. This deposit will be fully refunded once the Distance Education office receives the materials back from the student (in the condition in which they were delivered).

Canadian citizens and landed immigrants who have reached their 60th birthday are invited to enrol in credit courses with no tuition or activity fee.

Further information
Distance Education
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8210
Toll-free (Ont., Man., and Sask.):
1-800-465-3959

Laurentian University

Laurentian's distance education program, *Envision,* offers about 180 courses, including correspondence, television (on TV Ontario and/or Mid-Canada Communications), video cassettes in many learning centres, and teleconferencing, and more are planned. The distance education courses are all credit courses counting toward a university degree. Manuals outline the course requirements and assignments.

Students may complete entire degree programs in arts (B.A.), Native social work, and nursing (post-R.N. B.Sc.N.). In the arts degree, concentrations are available in law and justice, psychology, religious studies, and sociology. Nursing courses within the B.Sc.N. program are open only to admitted registered nurses, but biology and chemistry courses may be taken by any student. Certificates in law and justice, family life studies, and human sexuality are also available entirely through distance education.

Students who wish to take correspondence or television courses from Laurentian must first obtain general admission to the university. The university waives tuition fees for senior citizens (60 years of age or over) enrolling in credit courses.

Distance education courses generally involve readings and regular assignments throughout the term. Senate regulations stipulate that at least 25% of the final mark is to be determined by supervised examinations that include a mandatory final evaluation upon completion of the course. Examiners are provided by the university, and every effort is made to see that students do not have to travel long distances to reach an examination centre. The university, however, cannot guarantee that this will always be the case for each individual. Teleconferencing courses bring together students at several locations at the same time, using regular telephone lines.

Tuition fee per course is $328, plus incidental fees of $12 per course and instruction fees of $26 per course for television and correspondence courses.

The Government of Ontario has announced a Northern Ontario distance education access network, Contact North/Contact Nord, to broaden the number of educational opportunities at secondary and postsecondary level to the residents of the North. The network includes teleconferencing facilities, microcomputers, video playback equipment, and information libraries at the following Northern Ontario communities: Atikokan, Chapleau, Dryden, Elliot Lake, Espanola, Fort Frances, Geraldton, Hearst, Hornepayne, Iroquois Falls, Kapuskasing, Kenora, Kirkland Lake, Manitoulin Island (West Bay), Marathon, Mattawa, Moosonee, Nöelville, North Bay, Red Lake, Sault Ste. Marie, Sioux Lookout, Sturgeon Falls, Sudbury, Thunder Bay, Timmins, and Wawa. In addition, the government has also made available monies for the development of distance education programs such as the B.Com. and B.A. in psychology in French.

Further information (correspondence courses)
Centre for Continuing Education
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3930

Further information (admission requirements)
Office of Admissions
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3915
Toll-free 1-800-461-4030

McMaster University

McMaster's Centre for Continuing Education offers correspondence courses in human services (certificate) and addictions studies (diploma). The addictions studies program is intended to develop knowledge and skills useful in working with addicted people. No correspondence programs leading to a degree are offered at McMaster University. The human services certificate is designed to help develop knowledge and skills in the human services field. A number of specializations are available. Fees for the 1990-91 academic year are $160 per course. Persons aged 65 and over may register without payment of a fee. It is recommended that students take no more than two full subjects in one study period. Students may register at any time during the year.

Further information
Human Services Program Co-ordinator
Centre for Continuing Education
Commons Building, Room 116
McMaster University
Hamilton, Ontario L8S 4K1
Telephone: (416) 525-9140, ext. 3328

University of Ottawa

Ottawa offers a number of correspondence courses, both in English and in French. Not more than five (six-credit) correspondence courses can be applied toward a degree at the University of Ottawa. The remaining courses must be taken in residence at the university, on either a full- or part-time basis

Following the sessional dates of the regular academic calendar, correspondence students may not normally take more than eight months to complete a full course. Evaluation for correspondence is normally by final examination immediately upon completion of the course.

Tuition fees are $304 for a full course and $152 for a half course.

Further information
Correspondence Division
University of Ottawa
165 Waller St.
Ottawa, Ontario K1N 6N5
Telephone (613) 564-2393

Queen's University

Each Queen's correspondence course counts as a credit toward a degree in the same way as does the equivalent course given on campus. It is possible to complete the 15 courses required for a three-year bachelor of arts degree with a minor concentration in German, politics, or psychology entirely through correspondence study. However, not all courses required for all concentrations are offered by correspondence; therefore, it will be necessary in some instances for a student to attend classes on campus to complete the degree requirements.

Each correspondence course is based on a study guide consisting of (1) an introduction giving students pertinent information concerning textbooks, materials, and a general outline of the course, and (2) a series of lessons, varying in number according to the course, which must be completed and returned for correction and grading in the appropriate academic department. Correspondence courses require a final examination; some also require progress tests

Admission requirements to the correspondence program are the same as the regular admission requirements for the university. Students are urged to register in correspondence courses by September 1, although registrations will be accepted up to September 10. The Division of Part-Time Studies cannot guarantee that registrations accepted after September 1 will be cleared in sufficient time for the student to receive the course outline, order books, and then begin the course on schedule. Only one correspondence course may be taken by students who have not previously completed university courses.

Tuition fees ($327 per correspondence course) cover registration, lectures, laboratories, use of the libraries, grading of examinations, the final examination, and telephone privileges. Fees are waived for all persons 65 and over who register for credit courses.

Further information
Admissions Officer
Part-Time Studies
Queen's University
131 Union Street
Kingston, Ontario K7L 3N6
Telephone (613) 545-2218

Open College/Ryerson
Open College, the educational service of radio station CJRT FM, 91.1, offers students convenient alternatives to classroom study. Students may take courses by radio, audio cassette, or correspondence.

A tutor is assigned to help students with the course material. During each course there are weekend seminars conducted at Ryerson. These sessions give students a chance to talk with instructors, tutors, and other students. Course assignments are mailed in to Open College, and mid-term and final examinations are written at Ryerson.

Two certificate programs at Ryerson, gerontology and public administration, are offered at a distance by Open College. Many Open College courses are accepted for credit at Atkinson College, York University.

Other universities may accept Open College courses for degree credit. Students are advised to contact the university in which they are enrolled to see if credit will be granted before registering in an Open College course.

Further Information
Open College/Ryerson
297 Victoria St.
Toronto, Ontario M5B 1W1
Telephone (416) 595-0485

University of Waterloo
Undergraduate degrees in arts, environmental studies, and science can be obtained completely by correspondence from Waterloo. Special pre-university courses are also available. Correspondence courses use audiotape cassettes, printed course notes, textbooks, and in many cases visual materials such as videotapes and 35mm slides. These, together with assigned problems prepared by the professor, form a complete learning package for self-directed study.

Most of Waterloo's correspondence courses are one-term half-credit courses, consisting of approximately 20 taped lectures of 40 minutes' duration, each with accompanying lecture notes. Students generally take two half-credit courses per term, although they may take from one to a maximum of five half-credit courses per term.

There is no limit to the time that may be taken to complete a degree on a part-time basis. However, students earning degrees on a part-time basis will be treated in the same manner as full-time students: no student will be allowed an indefinite number of failures while accumulating the course credits required for a degree.

Normally, Waterloo's correspondence courses are not available to people with mailing addresses outside Canada and the United States.

Tuition fees are $184 for each half-credit course, plus a deposit of $40 for each set of tapes.

Credits toward degrees
Unless otherwise stated, all of the following may be taken entirely by correspondence, or as a combination of correspondence, regular, and summer courses.

Faculty of Arts
General non-major B.A. degree; general B.A. with a major in classical studies, economics, English, geography, history, philosophy, psychology, religious studies, social development studies, or sociology. Each degree requires 30 term courses, the equivalent of a three-year degree when taken full-time on campus.

A four-year general B.A. in history is also available, as well as an honours B.A. in classical studies and an honours B.A. in English. Each of these degrees requires 40 term courses, the equivalent of a four-year degree when taken full-time on campus.

Correspondence students are required to pass the English Language Proficiency Examination, which is written after completion of 15 of the 30 term courses required for a general Bachelor of Arts degree.

Faculty of Environmental Studies
Bachelor of Environmental Studies (Geography)

Requires 30 term courses, the equivalent of a three-year degree when taken full-time on campus.

Faculty of Science
Bachelor of Science (general, non-major)

Requires 30 half credits, of which at least 15 must be science half credits, the equivalent of a three-year program when taken full-time on campus. An honours non-specialized B.Sc. is offered under certain conditions.

Pre-university courses
Correspondence learning packages are available in algebra, calculus, chemistry, French, functions, and physics for students who wish to qualify for university level courses but do not have the necessary high school prerequisites. The pre-university courses are non-degree, non-credit courses, which can be used to gain admission to degree programs at the University of Waterloo.

The courses are designed to span four months; however, students may study at their own pace. Two examinations must be taken, one at the mid-point and one at the end of the course unless otherwise stated. A student may begin at any time and apply to write the examinations when ready.

The tuition fee for pre-university chemistry, French, and physics courses is $184 *each*, plus a deposit of $40 for each set of tapes. For algebra, calculus, and functions courses, the tuition fee is $80 *each*, plus a deposit of $20 for each set of tapes (tape deposits are refundable upon return).

Further information
Correspondence Office
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 888-4050

University of Western Ontario
Western offers correspondence courses in arts, science, and social sciences during the winter and summer sessions.

To be eligible for a correspondence course at Western, students must be admitted to Western or have a letter of permission from another university. Summer correspondence students must also have successfully completed at least one other university-level course. Correspondence courses are open to residents of Canada and, during the fall-winter session only, to Canadian citizens living abroad.

Students may take ten of the courses required for a B.A. by correspondence; the remainder must be completed either on campus or at an off-campus centre. Students may take a maximum of one full course (or equivalent) by correspondence during the summer session and two full courses (or equivalent) during the fall-winter session, subject to the regulations governing maximum course loads.

Students registered at other universities may request permission to take correspondence courses at the University of Western Ontario for transfer of credit toward their home university. Students who wish to take courses in this manner must obtain a letter of permission naming the specific courses from the registrar of their university.

The tuition fee for all credit courses is approximately $296, payable at the time of registration.

Further Information
Correspondence Supervisor
Faculty of Part-time and Continuing Education
University of Western Ontario
London, Ontario N6A 5B8

For students who wish to take correspondence courses but who have not previously attended Western, application forms are available from
Department of Admissions and Academic Records
Stevenson-Lawson Building
University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2150

Wilfrid Laurier University

Wilfrid Laurier's Telecollege university degree credit courses can be completed by television or in designated communities by teleconferencing. Part of a Telecollege course is a series of half-hour or hour-long lectures on television or two hours by teleconference. Other parts of the program include a textbook, study guide, resource binder, and in some cases audio cassettes.

Instructors co-ordinating Telecollege courses are available during specified office hours to accept toll-free calls to answer questions about the course. Most courses are supplemented through the use of teleconferencing in off-campus locations.

Information on tuition, study kit costs, broadcast availability, and air times for television courses, as well as other details, are outlined in the part-time studies calendar, or by calling 1-800-265-8866 toll-free – ask for Telecollege.

Further information

The Office of Part-Time Studies and
Continuing Education
75 University Avenue West
Waterloo, Ontario N2L 3C5

University of Windsor

Windsor offers degree credit courses in the B.A. and B. Comm. programs through distance education. It is developing a distance B. Comm. program with a concentration in accounting for the Society of Management Accountants of Ontario. Distance education courses include print materials, texts, and telephone contact with the instructor, and may include audio tapes and video programs.

Further information

Ms. Margaret Landstrom
Assistant Director
Division of Continuing Education
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 973-7079

• Other Correspondence Courses/ Distance Education

Accountancy Courses

Certified General Accountants Association of Ontario and the Society of Management Accountants of Ontario offer correspondence courses that, upon graduation, lead to the designation Certified General Accountant (CGA) and Certified Management Accountant (CMA) respectively.

Through the CGA Association, a course of study is offered in such management studies as financial management, information systems, and controllership. The program of study is primarily by correspondence, supplemented by lectures in different locations throughout the province.

The course is offered nationally, and all subjects are identical in each province.

For further information on the CGA program of study, on admission requirements, and on the organization, please refer to the section on the CGA Association in this publication.

The Society of Management Accountants of Ontario offers a professional education course designed specifically for the field of management accounting in business and government. Available by correspondence or evening lecture, this five-level study program leads to the designation CMA. The CMA course teaches the concepts and techniques of management accounting, law, statistics, and other relevant areas of financial management.

For further information on the society, the admission requirements and on the courses required, please refer to the section on the Society of Management Accountants of Ontario in this publication.

The Institute of Chartered Accountants of Ontario offers correspondence courses in taxation and law to students registered with the institute. Information on these courses, and how they fit into the overall CA qualification requirements, can be obtained from the institute.

For further information on the institute and the qualification requirements for becoming a chartered accountant, please refer to the section on the Institute of Chartered Accountants of Ontario in this publication.

In addition, the University of Waterloo offers correspondence courses in introductory financial accounting, advanced financial accounting, auditing, computer science, quantitative methods, economics, law, and management. Please contact the university for more information about these courses.

Contact North

Contact North does not offer courses on its own behalf, but serves as a delivery vehicle for universities, colleges, and secondary schools, which use the Contact North network to deliver distance education courses to students throughout Northern Ontario.

It is an initiative of the Ontario government to increase educational opportunities for residents of Northern Ontario. By using the services of Contact North, learners can receive instruction, support, and information without leaving their own community. This can result in savings of time and money for students and opens up learning opportunities that would not otherwise be available.

Contact North operates a network of electronic classrooms at "access sites" in communities across Northern Ontario. Each access site is equipped with a variety of educational technology devices to enhance and deliver distance learning. These technologies may include computers, audio teleconference equipment, facsimile machines, audio and video recorders, and audiographic equipment (which acts like an electronic blackboard).

A variety of courses from postsecondary and secondary institutions are delivered to the access sites. Calendars, registration forms, and information about distance education opportunities across Canada are available at Contact North Access sites.

A Contact North access site co-ordinator is available in over 35 communities to assist students with identifying distance education courses and programs and with registration. Northern Ontario residents are urged to check their local telephone directory for a Contact North listing. If there is no local listing, one of the two regional co-ordinating centres listed below should be contacted.

Contact North
Northwest Regional Co-ordinating Centre
Lakehead University
Bora Laskin Building
955 Oliver Road
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8006
Fax (807) 343-8013

Contact North
Northeast Regional Co-ordinating Centre
160 Douglas Street West
Sudbury, Ontario P3E 1G1
Telephone (705) 671-2710
Fax (705) 671-2736

Independent Learning Centre (Ministry of Education)

The Independent Learning Centre (ILC) provides distance education courses in French and English for Ontario residents who wish to complete an elementary and/or secondary education, upgrade their basic skills, or study for personal development. These courses are available free of charge to Ontario residents.

Students may enrol at any time and proceed at their own pace through the lesson. For most courses, lessons, textbooks, and other supplies are sent on loan and the only cost to students is the postage to mail assignments to their teachers. Counselling is available to advise applicants and enrolled students about appropriate programs. Also, a telephone tutorial service is available to students who encounter difficulties in their courses.

The elementary program provided by ILC is designed for children who are unable to attend an Ontario school or who are living temporarily outside Canada. For adults who wish to upgrade their basic skills, ILC offers literacy courses in both languages.

Most of the students who take ILC courses are enrolled in the secondary program. While some full-time secondary school students supplement their day school programs through this service, the largest number are mature adults who wish to earn a diploma, gain employment skills, complete admission requirements for a postsecondary institution, or satisfy personal goals. All courses are based on Ministry of Education guidelines. Thus, certificates and diplomas are equal in value to those issued by Ontario schools.

Further Information
Independent Learning Centre
909 Yonge Street
Toronto, Ontario M4W 3G2
Telephone (416) 965-2657
Toll-free 1-800-387-5512

ILC Sudbury Office
2141 Lasalle Blvd.
Sudbury, Ontario P3A 2A3
Telephone 1-800-461-6257

Michener Institute for Applied Health Sciences
Correspondence courses are offered in many health-science and general-interest subjects at the refresher, R.T., and post-R.T. levels. Students may enrol in correspondence courses at any time during the academic year.

Further information
Divison of Part-Time Studies
Michener Institute for Applied Health
Sciences
222 St. Patrick Street
Toronto, Ontario M5T 1V4
Telephone (416) 596-3117

Registered Private Vocational Schools
A number of private vocational schools in Ontario, registered under the Private Vocational Schools Act, offer correspondence training. These schools aim to provide practical training in the skills employers demand.

Private correspondence schools are helping to fill the need for vocational training for those unable to attend regular classes.

The activities of these institutions in terms of course offerings, length of training, and fee per course vary a great deal ($100 to $5 000) depending on the nature of the courses offered and the resources available to each private school. Some of the courses consist of a combination of residence and correspondence instruction, the residence portion usually comprising the latter part of the course.

The section *Registered Private Vocational Schools* in this publication contains a directory of all the private vocational schools registered in Ontario. Section 2 lists programs available by correspondence. The code numbers accompanying each course listing refer to the schools in the directory that offer that course.

Facilities for Students with Disabilities

Ontario Colleges and Universities

Public postsecondary institutions in Ontario have made efforts to accommodate the requirements of students with disabilities. Both universities and colleges have increased the accessibility of on-campus postsecondary education.

In recent years many new buildings have been designed to be accessible to the physically disabled and, where possible, older buildings are being modified with ramps, accessible washrooms, and other special facilities.

Some institutions have more complete facilities than others, but all are willing to make arrangements, where possible, for individuals with disabilities. Residence facilities can be arranged at most universities and at a few of the colleges, and specially designated parking areas are available at most institutions. In general, recreational facilities that can accommodate students with disabilities are limited. The availability of special study aids and resource materials varies from school to school, and students are advised to consider carefully what special study facilities are available when selecting the institution they wish to attend.

Print-Handicapped Students Attending Postsecondary Institutions
The Resource Services Library of the W. Ross MacDonald School in Brantford, Ontario, is the co-ordinating agency for providing tape and braille materials to Ontario print-handicapped students who are registered in courses at publicly supported postsecondary institutions or approved registered private vocational school programs. Every postsecondary institution has an appointed contact person who will assist print-handicapped students and help them secure the required texts and other material. For further information, contact the Resource Services Library, W. Ross MacDonald School, by telephoning (519) 759-0730.

- **Colleges of Applied Arts and Technology**

Algonquin College
Algonquin is committed to integrating students with disabilities into all facets of academic life and is improving accessibility to its campuses. The Special Needs Department provides educational support services to eligible students with disabilities who apply to or attend Algonquin College. Its philosophy is to assist students with disabilites to become sucessful and independent learners by designing an individualized student plan. The following services are available: psycho-educational assessment, technical aids, physical accommodations, modification of evaluation procedures, access to the Special Needs Educational Support Centre, and sign-language interpretation.

Incoming students should identify themselves. Additional documentation to support an applicant's qualification is reviewed by a multidisciplinary team to ensure a fair appraisal of the applicant's abilities. Students who have learning difficulties may either refer themselves to the Special Needs Department or be referred by faculty or staff. For more information, please contact

Co-ordinator, Special Needs Department
Algonquin College of Applied Arts and
Technology
B287-1385 Woodroffe Avenue
Nepean, Ontario K2G 1V8
Telephone (613) 727-7683 (voice),
(613) 727-7747 (TDD)
Toll free 1-800-267-7061 ext. 7683

Cambrian College
Cambrian's campus is completely accessible to wheelchair students. Parking is available close to the main entrance for physically disabled students who drive themselves to and from the college. For others a drop-off and pick-up spot is located next to the main door. Arrangements can be made for the use of an elevator key. Two of the three elevators are keyed. A room is available for overnight charging of wheelchair batteries, and for storing books and outdoor clothing. Telephones for wheelchair students are located throughout the building. There are also adjustable telephones for the hearing impaired.

A physician is on campus three days a week. In addition to providing normal health-care services, the physician is prepared to take care of out-of-town students who need ongoing medical treatment. The health service office is staffed by registered nurses five days a week, from 8 a.m. to 4:30 p.m.

The placement office will assist students with disabilities in their search for employment. There is an Association for Disabled Students (ADS), which provides opportunities for students to meet and share concerns, plan activities and projects, and liaise with the rest of the college on matters pertaining to students with disabilities.

Physical-demands analyses have been done for each college program and are readily available to individuals and agencies through the OACIS computer program in the counselling office. A city-operated handi-transit system provides transportation to and from the campus. The college has established a centre for students with disabilities and permits the use of seeing-eye dogs for blind students. Special programs are provided for severely disabled adults who wish to pursue future employment and/or postsecondary education. In addition to seeking the general assistance available throughout the college, students may seek specific assistance from their department chairman, counselling services, and the special needs co-ordinator.

A variety of technical aids and accommodations is available, including alternative testing, notetakers, an FM system, large print and voice computers, and taped textbooks; students should consult the special needs co-ordinator. For more information contact

Special Needs Co-ordinator
Room 2245
Cambrian College of Applied Arts and
Technology
1400 Barrydowne Road
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101 ext. 7793 or 7420

Canadore College
Facilities at the College Drive campus are fully accessible to all, with designated parking areas for the physically handicapped, electronic doors and elevators for wheelchair access, specially equipped washrooms, and telephones adapted for the hearing impaired and accessible at wheelchair level. Canadore also provides access to a wide variety of videotape and interactive disc materials. Tutoring sessions and a volunteer notetaking service are also available. Additional exam time, or, if required, alternative exam methods, can be arranged.

Counsellors are available to discuss the physical and learning demands of programs, to provide a thorough assessment of learning needs, and to help adapt programs to individual capabilities. The counselling staff has extensive contacts with social service agencies, such as Vocational Rehabilitation, the Workers' Compensation Board, and the Canadian National Institute for the Blind, for quick and appropriate referrals when needed.

The Head Start program provides a head start for the exceptional student before beginning study in the program of his or her choice. Head Start includes orientation, an assessment of learning skills, and the provision of support services as determined by staff and student. For more information contact

Dawson Pratt
Special Needs Co-ordinator
Canadore College of Applied Arts and
Technology
100 College Drive
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 213
Toll-free 1-800-461-7340
TDD (705) 495-2862

Centennial College
At Centennial, counsellors at each campus provide career, academic, and personal counselling for students with disabilities. All college buildings are accessible and have at least one accessible washroom per floor. As well, there are specially designated parking spaces for those who require them. For more information contact

Dave Robertson
Special Needs Consultant
Centennial College of Applied Arts and
Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 3279

La Cité collégiale
The special needs co-ordinator at La Cité collégiale co-ordinates service to students who identify their disabilities. Following individual consultation and assessment, students participate in developing a personalized plan aimed at facilitating their full integration into the student community.

Applicants are invited to contact La Cité collégiale early in the registration process for information regarding the possible accommodation of their individual needs. For further information contact

La Cité collégiale
Special Needs Co-ordinator
2445 Saint-Laurent Boulevard
Ottawa, Ontario
Telephone (613) 744-5050

Conestoga College
Applicants should contact student services at the campus they wish to attend, or the college's Special Needs Office, because the accessibility to Conestoga's facilities and the support services vary according to the campus location. Each campus offers a variety of facilities to accommodate students with disabilities, including reserved parking spaces, ground-level entrances that make the college fully accessible, special washrooms, and a service elevator at the Doon Campus that provides access to the cafeteria and to classrooms on the third and fourth floors. The facilities at the Cambridge, Guelph, and Waterloo campuses are fully accessible. The Kenneth E. Hunter Recreation Centre is designed to accommodate participants and spectators with disabilities. For more information contact the Student Services Office at any of these campus locations: Doon (Kitchener), Guelph, Waterloo, or Stratford; or contact

Special Needs Co-ordinator
Conestoga College of Applied Arts and
Technology
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 748-5220 ext. 420

Confederation College
Confederation's facilities for students with disabilities include reserved parking spaces, ramps, special washrooms, and service elevators for access to the cafeteria and the above-ground floors. The college's residence and fitness centre are designed to accommodate the physically disabled.

Special services and equipment may be arranged according to individual requests. Academic, personal, and career counselling is available through the Special Needs Counsellor. Learning needs are assessed and appropriate programs are planned, implemented, and evaluated. Reasonable accommodations can be arranged. Adaptive devices are available for student use, and examination or testing assistance and/or supervision can be arranged. Prospective students are urged to inform the supervisor, as early as possible, of their intention to attend Confederation. For more information contac

Supervisor, Learning Assistance Centre
Confederation College of Applied Arts and
Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
Ontario, Manitoba, and Saskatchewan
residents call toll-free 1-800-465-5005

Durham College
Durham's special needs resource person will work with each student to determine how individual needs can be met. Prospective students are encouraged to contact the special needs office as early as possible concerning their intention to attend Durham College. Academic and other accommodations can then be arranged before classes start.

The college has made every attempt to ensure that its facilites are accessible. Reserved parking, ramps, stairlifts, elevators, accessible washrooms, electron doors, visual aids, volume-controlled phones, and FM hearing systems in the ture theatres are just some of the faciliti available.

Medical services (health nurses and doctor one afternoon a week) are ava to all students, and a rest area is pro by Health Services. Peer tutors, note and readers can be accesse supportive counselling and available on an ongoing basis. Stud may access word processors, and t com-puter-assisted learning centre provi hardware and software suited to inc dual needs.

Questions or concerns about the arning and/or physical demands of any of Durham's programs should be dire ed to

Lori Cook
REACH (Resources for Academic
Challenges) Program
Durham College of Applied Arts a
Technology
2000 Simcoe St. N., Box 385
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210 ext. 36
Toll-free 1-800-666-5843

Fanshawe College
Fanshawe's main campus is accessible to mobility-impaired students, and special parking spaces close to the buildings can be reserved for those who inform the Parking Office of their needs. Five elevators are strategically located to help students move from floor to floor, and most of the washrooms are accessible. The city provides Para-Transit transportation to persons with mobility problems.

The Student Services Department, including Health Services, offers counselling and health-related services to all stuudents. In addition, educational support is available from the English and math learning centres and the peer tutoring program. Applicants with disabilities are invited to identify themselves early in the application process so that their accomodation requirements can be evaluated. The Special Needs Office of the Student Services Department co-ordinates this service, which includes arranging interviews and campus tours, facilitating access to the college's expanding inventory of educational assistive devices, and providing a peer assistance program for students who require more extensive aid such as notetaking or personal care. For further information, contact the

Special Needs Co-ordinator
Student Services Department
Room A2010
Fanshawe College of Applied Arts and Technology
1460 Oxford Street East
London, Ontario N5V 1W2
Telephone (519) 452-4282

George Brown College
Most buildings are equipped with ramps, elevators, and special washrooms for students with disabilities. Accessible parking can be arranged. Wheelchair-accessible, TTY, and volume-controlled telephones are available on all campuses.

Notetakers, taped or brailled materials, and peer attendants can be provided for students with visual or other disabilities. Visual Teks and magnifiers are available in the library. Computer access is provided through screens with enlarged print and speech, spell-checking systems, and braille output. Students may borrow a few two- and four-track cassette recorders and portable phonetic spell checkers for trial periods.

A specialist in learning disabilities is on staff to meet with students to develop strategies and accommodations. A three-day orientation to college is provided for Grades 11 and 12 students with learning disabilities. Computerized reading and spelling remediation is also offered.

Early self-identification of special needs is important to ensure the best quality of service. For further information, please contact

Ellen Capano
Information Officer
Services for Students With Special Needs
Educational Access Services
George Brown College
P.O. Box 1015, Station B
Toronto, Ontario M5T 2T9
Telephone: (416) 944-4466

George Brown also offers two unique programs for deaf and hard-of-hearing students. The college preparation program (CPP) is 34 weeks long and is designed for students who are not yet academically ready for a college-level program or who are unsure about what college program would be most suitable for them. It is set up to provide some flexibility for the students, and the courses offered provide an academic and life skill focus. The educational access service college orientation (EASCO) is a one-week program to ease the transition into college and city life. Services for deaf and hard-of-hearing students can provide modified schedules and a variety of services, such as oral transliterating, sign-language interpreting, notetaking, counselling (by a deaf person), tutoring, and pre-teaching. Our staff consists of deaf and hearing professionals, one of whom is a speech therapist.

For the deaf and hard-of-hearing student services, contact:

Gerard Kennedy
Counsellor
Services for the Deaf and Hard-of-Hearing Students
George Brown College
P.O. Box 1015, Station B
Toronto, Ontario M5T 2T9
(TTY) 1-416-944-4469
(VOICE) Bell relay service 1-800-267-6600

Georgian College
Georgian College provides most special equipment and services upon individual request. Four buildings have ground-level accessibility, and the College Services Building has an elevator and special washroom facilities.

Once students are admitted to a Georgian College program, every effort is made to accommodate their individual needs. The college recognizes that some students may require specialized assistance. To receive such assistance, students should contact the college's special needs co-ordinator in the Student Services Department. Questions or concerns about the physical or learning demands of a program should be directed to the campus the student plans to attend. Contact the special needs co-ordinators at any one of Georgian's three main campuses:

One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951
Toll-free 1-800-461-9696
or
825 Memorial Avenue
P.O. Box 2316
Orillia, Ontario L3V 6S2
Telephone (705) 325-2705
or
1150 8th Street East
P.O. Box 700
Owen Sound, Ontario N4K 5R4
Telephone (519) 376-0682

Humber College
Humber's North Campus is equipped with ramps, reserved parking spaces, a "drop-off" location, modified washrooms, and an elevator, making it accessible to wheelchair students. Lakeshore campus is accessible and is equipped with an elevator to the second floor, and modified washrooms are available. The Osler and Keelesdale campuses have entrance ramps and converted washrooms, and Keelesdale has a reserved parking space. At the Lakeshore and North campuses, a front-end assessment process has been established for applicants who self-identify disabilities. This includes an analysis of a program's physical demands and of the functional capabilities of individuals. Following this analysis, the possibilities of a match between student and program are discussed by an admissions committee. At this stage, the aids and devices that could supplement the student's functional capabilities are also investigated as part of the admissions process. For more information contact

Director of Admissions
Humber College of Applied Arts and Technology
3999 Lakeshore Blvd. West
Toronto, Ontario M8V 1K8
Telephone (416) 252-5571
or
Associate Registrar
North Campus
Humber College of Applied Arts and Technology
205 Humber College Blvd.
P.O. Box 1900
Etobicoke, Ontario M9W 5L7

Lambton College
Lambton's campus is equipped with ramps, elevators, automatic doors, special telephones and drinking fountains, and modified washrooms. Reserved parking spaces and an on-campus residence that can accommodate students with disabilities are also available. In addition, Lambton has developed special learning resources material in certain fields. College staff help students who require tapes and readers to locate various sources of information. For more information contact

Special Needs Office
Counselling Services
Lambton College of Applied Arts and Technology
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751 ext. 295

Loyalist College
Loyalist is accessible to students with disabilities. Physical accommodations include preferential parking, automatic door openers at main entrances, ramps, and a key-activated elevator. The college has a full-time co-ordinator of special needs. Support services offer a wide range of technical devices to meet the needs of a variety of groups, including the hearing-impaired, low-vision/blind, mobility-impaired, and learning-disabled. A Computer Resource Centre is available for students with disabilities to receive academic support and tutoring; counselling, advocacy, and job placement services round out a comprehensive program for students with disabilities.

Students are encouraged to identify special needs when they are admitted, so that support services can be established before classes begin. A one-week summer orientation program for students with disabilities is available to help them become familiar with the resources available at the college. For more information contact

Catherine O'Rourke
Co-ordinator of Special Needs
Loyalist College of Applied Arts and
Technology
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 969-1913

Mohawk College
Most of the buildings at Mohawk are accessible and equipped with ramps, a large elevator, and special washrooms. Residence facilities are not available, but housing assistance is provided by the College Housing Office. Priority in parking is given to students with disabilities. For more information contact

Rachel Thachuk
Manager, Special Needs
Mohawk College of Applied Arts and
Technology
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2292

Niagara College
Niagara has a Special Needs Office staffed by a counsellor and an assistant. Services to students with disabilities can be provided after individual consultation with, and assessment by, the special needs counsellor. Niagara is retrofitting its physical facilities wherever possible; special parking, ramps, and special washrooms are now in place. Students with disabilities should contact the Special Needs Office as soon as possible so that their needs can be addressed immediately. For more information contact

Victoria Maugain
Special Needs Counsellor
Niagara College of Applied Arts and
Technology
Woodlawn Rd., P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 496

Northern College
Students with disabilities are frequently accommodated at Northern on an individual basis. Instructors, in co-operation with the chairperson and special needs adviser, attempt to revise or alter teaching and testing methods to suit the student. Students are encouraged to identify their exceptionality on their application forms. The prime responsibility for identifying needs lies with students.

Northern's Porcupine (Timmins) campus is equipped with two elevator lifts for easy access to the gymnasium and technical wing, automatic doors, ramps, accessible washrooms, and computer facilities in the main library. Readers and tutors are available, as are oral testing and exams, and the library is fully accessible to wheelchairs.

Residence facilities are not available, but the adviser works with sponsoring agencies to provide special equipment and services. Parking facilities are available. The Kapuskasing campus also provides accessible washroom facilities, parking and ramps for people with disabilities. The Kirkland Lake campus can also accommodate students with disabilities, but the Haileybury campus and the James Bay Education Centre have no special facilities. For more information, contact

Denise Joyal
Special Needs Adviser, Student Services
Northern College of Applied Arts and
Technology
Highway 101, P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211
TDD (705)235-8562

St. Clair College
Individuals with disabilities are encouraged to contact Richard Evans, manager of special needs services, to discuss the physical and academic demands of programs and the adaptations that can be made to assist students. Those who may require special assistance should inform the Special Needs Services office as soon as possible. Some types of accommodation require significant lead-time to implement.

The campuses of the college are equipped with ramps, elevators, accessible washrooms, amplified pay telephones for the hearing impaired, automatic doors, and other accommodations for students with disabilities. In addition, health services and counselling services are available for all students.

Tutors, notetakers, taped texts, and other services are available for students who have an identified and proven need. Designated parking spaces are available at all campus locations; however, persons using these places must have either a wheelchair logo on their license plates or a municipally issued parking permit displayed on the dashboard of their cars.

Speech- and hearing-impaired persons can contact St. Clair by telephone. Anyone who has a teletype (TTY) or telephone device for the deaf (TDD) can call (519) 966-0053 from 8:30 a.m. to 10 p.m.

The physically disabled and those unable to board city buses may take advantage of Handi-Transit Buslines. The service must be reserved two weeks in advance for curb-to-curb transportation at the rate of $1.25 each way; contact Handi-Transit Buslines, 3737 Walker Road, Windsor, Ontario N8W 3S9 (phone (519) 966-0930). For more information contact

Richard Evans
Manager, Special Needs Services
St. Clair College of Applied Arts and
Technology
Windsor, Ontario N9A 6S4
Telephone (519) 972-2729

St. Lawrence College
Students with disabilities are encouraged to contact Student and Campus Services at the Brockville, Cornwall, or Kingston campuses for information and assistance. Students will need to know the physical demands of a chosen program, and what adaptations can be made for visual, hearing, or mobility impairments, learning disabilities, developmental handicaps, or other special needs.

If students need taped material, they should inform the staff when receiving confirmation of acceptance, so that the materials will be ready when classes begin. Students are expected to complete the requirements of a chosen program; the final responsibility for successful adaptation is theirs. Some modifications in testing and teaching/learning methods will be undertaken, if feasible and appropriate, after consultation with college staff.

All campuses are equipped to provide basic services for the students with disabilities, including washrooms, telephones, ramps, automatic doors for wheelchair and mobility impaired individuals, movable desks, and reserved parking areas.

The Kingston Learning Resource Centre has some large-print books. Brockville has a visualtek located in the library, a visualtek DP-11 in the computer lab, and a portable visual ear. Cassette recorders and study carrels are available on the three campuses. All campuses offer sign language courses to interested students.

Before students start their program, the Brockville campus offers a Headstart Program for students with disabilities. For more information contact

Exceptional Student Project
St. Lawrence College of Applied Arts and
Technology
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

Sault College
Sault features ramped and curb-cut entrances, modified washrooms, and elevator

access for those who have difficulty negotiating stairs. Equipment loans can be arranged for student use: microcassette and four-track recorders, speller/thesaurus devices, and computer software and technical aid. Supports are also available through tutors, notetakers, readers, and test aids. For more information contact

Registrar's Office
Sault College of Applied Arts and
Technology
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 949-2050 ext. 700 or
Counselling ext. 703
Toll-free 1-800-461-2265

Seneca College
Students with disabilities should contact the Special Needs Office as soon as possible if they will require assistance. A comprehensive range of academic support services, learning aids, and reasonable accommodations and/or program modifications can be arranged to accommodate individual student needs.

Seneca's numerous campuses offer varying degrees of physical accessibility to mobility and sensory-impaired students, including modified washroom and locker facilities, ramps, reserved parking spaces, and modified telephones. For more information contact

Special Needs Office
Seneca College of Applied Arts and
Technology
Newham Campus
1750 Finch Avenue East
North York, Ontario M2J 2X5
Telephone (416) 491-5050 (voice),
491-0468 (TDD)

Sheridan College
Sheridan's emphasis on helping students succeed includes helping those with disabilities. Counselling and support services are available for students with physical, emotional, and learning disabilities. Sheridan's Health Services can provide additional assistance for students with special medical needs. Most buildings at the college are equipped with ramps, elevators, accessible washrooms, and reserved parking spaces. Students are encouraged to contact the Special Needs Office well in advance of registration. Arrangements for special services may be made on an individual basis. For more information contact

Special Needs Office
Counselling Services
Sheridan College of Applied Arts and
Technology
Telephone (416) 845-9430 ext. 718,
(Oakville), 459-7533 ext. 205 (Brampton)

Sir Sandford Fleming
The Brealey and Frost facilities of Sir Sandford Fleming are accessible with ramps, elevators, and special washroom facilities. The McDonnel facility, an older building, provides washroom facilities and limited ramp access on main floors. The continuing education program at the McDonnel and Frost campuses offers courses in sign language as community needs dictate. For more information contact

Admissions Office
Sir Sandford Fleming College of Applied
Arts and Technology
School of Natural Resources
Frost Campus
Box 8000
Lindsay, Ontario K9V 5E6
Telephone (705) 324-9144
Toll-free 1-800-461-0340

Admissions Office
Sir Sandford Fleming College of Applied
Arts and Technology
Sutherland Campus
Brealey Drive
Peterborough, Ontario K9J 7B1
Telephone (705) 749-5500
Toll-free 1-800-461-6423

• Universities

Brock University
Brock has taken steps to ensure that most of the campus is accessible; wheelchair ramps, elevators, and modified washroom facilities are available. Special permits allow priority parking, and a transit system for those with disabilities is provided by the City of St. Catharines.

The university library is equipped with braille and cassette dictionaries, braillers and paper, a braille typewriter, a talking calculator and book machine, reel-to-reel and cassette recorders, two visualteks, and various magnifiers. Study carrels are available to all students with disabilities.

A hydraulic lifting wheelchair is provided in both the library and the science complex; chemistry labs and a computer terminal have been modified for the physically disabled. The pool in the physical education centre is equipped with a hydraulic floor to provide easier access.

Students for whom special arrangements are advisable, or those who would like more information and a copy of the brochure, *Disabled Student Services at Brock University*, should contact the co-ordinator for disabled students,

L A. Towe
Associate Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

Carleton University: Paul Menton Centre for Persons with Disabilities

Mobility Impaired
Carleton's campus is well equipped to accommodate students with physical disabilities. The buildings are close to each other and are connected by tunnels. All of the main buildings have elevators and are ramped for outside entrance and egress. Many sidewalks have been made accessible by curb-cut renovations. An accessible washroom exists at the tunnel entrance to Paterson Hall.

Residence Program for the Disabled
A limited number of students with disabilities are admitted into the Carleton residence program for the disabled each year. Admission to the program is based upon the need for attendant care service, the availability of space in an accessible room, whether or not the applicant has housing alternatives within the Ottawa area, and the date of application. For further information about the program, contact the support services co-ordinator at (613) 788-6615/6608 or Mrs. Karen Haarbosch in the Housing Office, at (613) 788-5612.

24-Hour Support Services Program
Twenty-four-hour attendant care is available for up to ten students with disabilities. Contact the support services co-ordinator or the co-ordinator for the disabled at (613) 788-6615/6608.

Visually Impaired
A study room in the library has been designated for use by students with disabilities. A room in the MacOdrum Library has equipment for the visually impaired. Enabling equipment includes two visualtek large-print readers, a brailler, and a large-screen, large-print computer terminal with printer and synthesized voice components.

Hearing Impaired
Personal FM systems and an auditorium FM sound system are now loaned to hearing-impaired students at Carleton. Students may pick up and return equipment to the Instructional Media Department in Southam Hall so that it can be available for day and evening use. Contact the learning specialist at (613) 788-6608.

The learning specialist also acts as liaison for the educational support services program. The program provides interpreter service, professional notetakers, and FM systems for eligible part-time students.

Learning Disabled Students
It is recommended that learning disabled students have a psychological assessment conducted so that university staff may provide services that address each individual's learning disability.

Students seeking help with their learning disability and/or information about Carleton University's policy for the learning disabled should contact the co-ordinator.

Accessibility and Resource Guide
An accessibility guide for students with disabilities is published each calendar year. For further information contact the co-ordinator.

Counselling
The associate co-ordinator is available for counselling appointments. Students with disabilities are welcome to make appointments to discuss personal or study-related difficulties. Contact the associate co-ordinator at (613) 788-6608.

NEADS
The National Educational Association of Disabled Students' administrative office is now located at Carleton. Inquiries regarding this national advocacy association can be made to Frank Smith, Room 513, Unicentre, (613) 233-5963, or to the

Co-ordinator for the Disabled
Room 500, Unicentre
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 788-6608 or Counselling and Student Life Services, 788-6600

Carleton Disability Awareness Centre
A new drop-in resource centre for students with disabilities has been funded by CUSA in Room 513, Unicentre. The centre is staffed by two part-time co-ordinators, and is open from 9 a.m. to 5 p.m. Monday to Friday. Inquiries are welcomed at (613) 788-6618.

University of Guelph

Co-ordinator for Disabled Students
The co-ordinator for disabled students can be reached through the Counselling and Student Resource Centre. The co-ordinator is there to discuss student concerns and to liaise with faculty and academic counsellors about specific student needs and requirements. Call (519) 824-4120, ext. 3244.

Implementation of Special Services
It is important that students with disabilities contact the co-ordinator for disabled students as early in the admission process as possible. Students with learning disabilities should present to the co-ordinator an assessment/evaluation done by a registered psychologist either privately or through the school system. This information will be used to initiate subsequent assistance.

Learning Resource Centre
For students with learning disabilities, a learning disabled specialist offers assistance, informal assessment, liaison with faculty, and appropriate referrals for assessment and counselling where necessary. When required, the university will arrange a formal assessment for students who have not been previously assessed, if there is evidence of a learning disability.

Academic Counsellors
Students with disabilities should contact their academic counsellor early in the academic career to discuss concerns and needs. The academic counsellor will help with course selection and answer questions about programs of study.

University Library
The main entrance is ramped and the turnstiles will permit passage of wheelchairs. Full-sized graduate carrels with lockers are provided. Washroom faciities are available in the basement. Braille books, large-print books, and tapes required for course use can be obtained for print-handicapped students. Study rooms, where readers may read directly to the student or record material, are also available. Call (519) 824-4120, ext. 3614.

Medical Services
All Students should register with OHIP. An infirmary is provided, and a physician is available 8:30 a.m. to 4:30 p.m. on weekdays. A nurse is availabe 8:00 a.m. to 12:00 a.m. on weekdays and 8:30 a.m. to 4:30 p.m. on Saturday/Sunday, with a doctor on call. Call (519) 824-4120, ext. 2131.

The Department of Residences
Students are urged to contact the department of residences as soon as possible, to determine the suitability of accommodation for their specific needs. Call (519)824-4120, ext. 3468.

The main entrance of the university library is ramped, and the turnstiles will permit passage of wheelchairs. Full-sized graduate study carrels equipped with lockers are provided. Washroom facilities are available in the basement. Braille books, large-print books, and tapes required for course use can be obtained for print-handicapped students. Study rooms, where readers may read directly to the student or record material are also available. For more information contact

Co-ordinator for Disabled Students
Counselling and Student Resource Centre
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120 ext. 3244, 3245

Lakehead University
Students who are sight or hearing impaired or who have other physical disabilities are encouraged to contact the Director of Student Services for information and assistance. All newer buildings at Lakehead are accessible, as are most older buildings, including residence buildings, rooms, washrooms, and athletic facilities such as the gym, weight room, pool, and change rooms. The City of Thunder Bay provides Handivans for students with disabilities. Permits for special parking areas are also available. For more information contact

Director of Student Services
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8149

Laurentian University
The Special Needs Office has a co-ordinator to encourage equal access, create awareness, and advocate when necessary for students with disabilities. A special needs committee, consisting of faculty and students, addresses issues of concern to the university. Laurentian has installed some facilities, such as ramps, electrically operated doors, and washroom facilities. The library provides support to the visually impaired; the Olympic Pool is accessible to the physically challenged. The Office of the Co-ordinator has a database of university and community resources. Students who require assistance are asked to contact

Co-ordinator of Special Needs
Room L334A
R.D. Parker Building
Telephone (705) 675-1151, ext. 3324.

Nipissing College's Education Centre in North Bay is equipped with ramps, elevators, and washrooms accessible to physically disabled students. Special parking areas are also available. However, residences are not wheelchair accessible, and special equipment and services are limited. For more information contact

Information Officer
Nipissing College
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450 ext. 2327

McMaster University
The university's provisions for people with disabilities include curb cuts, ramps, tactile elevator lettering, a vertical chair lift in the Burke Science Building, accessible washrooms, learning aids in the library, readers on request from the volunteer bureau, and special stickers for all parking zones. The library will also make arrangements for taped textbooks, and library staff will assist students with disabilities with research and other academically related services. Classes can be relocated to accommodate mobility-impaired students, and personal course timetables are prepared to suit the student. Special examination arrangements may be made. Each faculty has a person responsible for making any special academic arrangements. An Amity Goodwill bursary and other forms of financial assistance are available to students with physical disabilities. For more information contact

Co-ordinator for the Disabled
Room 109B, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4339

Ontario College of Art
OCA has access via a lift for physically disabled students into its 100 McCaul Street building and an accessible washroom on the main floor. The campus at 149 College Street has a ramp and elevators throughout. The college has an industrial design program for students who wish to design educational aids and utensils for mentally

and physically disabled people. In addition, OCA is committed to accommodating visually impaired and disabled students whenever possible within its existing academic programs. Individuals may make inquiries through the Office of the Senior Adviser. For more information, contact the

Office of the Senior Adviser
Special Needs Co-ordinator
Ontario College of Art
100 McCaul Street
Toronto M5T 1W1
(416) 977-5311

University of Ottawa
Entrances, elevators, telephones, and washrooms cater to the needs of most students with disabilities. As soon as the student is admitted, he or she should contact the Centre for Students with Disabilities to discuss particular needs and obtain the support required in adjusting to university life.

A team of doctors and nurses tend to the medical care of all students on campus. Medication prescribed at the service is provided free of charge to full-time students. The clinic is open from 8:30 a.m. to 5 p.m. Monday to Friday. For after-hours emergencies, students can dial the service's number, and a doctor will return their call.

The housing service offers specially equipped rooms in residence. To obtain one of these rooms, students should make arrangements in advance by contacting the accommodation officer.

Students with disabilities should inquire at the beginning of the school year about special services available at all campus libraries; staff will do their utmost to ensure the ready accessibility of these services. The Morisset library and the new Health Sciences library are equipped with ramps and pose no access problems. Morisset also has the following special equipment: a braille typewriter, a Perkins braille transcriber, and an Optiscope magnifier.

The parking division can offer students with disabilities a parking space that is as close as possible to the building they visit most often.

The personnel of the placement service are happy to help students with disabilities in their job search. The federal government runs many interesting job programs for the physically disabled. (Placement Service, University Centre, Room 312, (613) 564-3381)

Through Sports Services, students can take up a number of recreational activities and make use of the Montpetit sports facilities. The personnel at Sports Services are most happy to look after the needs of users with disabilities.

The Co-ordinator of Services for Students with Disabilities recruits volunteers who help students with readings, notetaking, research work, and moving about on campus. For more information contact

Co-ordinator of Services for Students with Disabilities
University of Ottawa
University Centre
85 University, #315
Ottawa, Ontario K1N 6N5
Telephone (613) 564-5053, 564-5054

Queen's University
Students with disabilities are encouraged to contact the co-ordinator of services for disabled persons, who will discuss with them what their requirements are and what changes are necessary so that obstacles to their participation in programs of their choice can, if possible, be overcome.

Students with disabilities are given priority in admission to residence. Both the men's and women's residences have rooms that are wheelchair accessible. One room in the women's residence has a visual alarm system. Reserved parking spaces are available.

If a student in a wheelchair has classes in a building that is not accessible, the university will try to relocate the class or improve the existing access.

There is a small room in the library for students who have a visual disability and who rely on tapes and braille material. It is soundproof and equipped with a four-track tape recorder and brailler. Some braille reference books are available. Other library equipment includes large-screen catalogue terminals, catalogue terminals at desk height, a visualtek low-vision reader, and a four-track playback tape recorder, available on loan.

The university library maintains liaison with the audio programs at Trent University, the CNIB, etc. through the W. Ross Macdonald School. These programs tape reading material for sight-impaired postsecondary students. They also serve those with learning disabilities and others who cannot use print materials. There is also a reading service available at the library.

A Kurtzweil data entry machine is available at computing services for students with a visual impairment who wish to have printed material put onto a computer disk.

Arrangements can be made for students to have extra time to complete examinations and course work, and for examinations to be prepared in tape or braille form. An amanuensis will be provided for students who can not write or type final examinations. There are support groups for students with learning or physical disabilities. A survey of wheelchair accessibility to Queen's University buildings is available to all currently registered students. For further information contact

Judy Lux
Co-ordinator of Services for Persons with a Disability
72 Queen's Crescent
Queen's University
Kingston, Ontario K7L 3X3
Telephone (613) 545-6566

Ryerson Polytechnical Institute
The Centre for Disabled Persons at Ryerson provides personalized service for students with disabilities. New students are requested to contact the co-ordinator before the beginning of the term.

Most buildings at Ryerson are accessible by wheelchair, and several provide special facilities that accommodate those using wheelchairs. Classroom reassignment is the standard response to inaccessible locations.

The Learning Resources Centre and the Centre for Disabled Persons have many technical devices and aids for those with individual specialized study needs. Extended services are also available.

Those with learning disabilities should contact the Centre for Disabled Persons' co-ordinator as soon as they apply to Ryerson to ensure confidential assistance in the application process and in adapting service needs.

The new Ryerson student residence has been designed to be barrier-free. In addition, many of the rooms have been designed to accommodate those with disabilities. Neill-Wycik College, a student co-operative residence, provides special arrangements, depending on need. Contact Neill-Wycik directly, before the term, because spaces are filled quickly. The parking garage at Ryerson provides designated spaces for those needing parking facilities.

Staff and volunteers at the Centre for Disabled Persons help students become acquainted with the campus and with registration. For further information contact

Co-ordinator
Centre for Disabled Persons at Ryerson
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario
M5B 2K3
Telephone (416) 979-5187 ext. 6655
TDD (416) 979-5274

University of Toronto
A co-ordinator of services to disabled persons can provide, upon request, liaison with academic and administrative departments and information and referral concerning facilities and services on- and off-campus.

Carrels in the Robarts Library are reserved for students with disabilities and/or volunteer readers. Magnifying devices and tape recorders are available at the three campuses and a brailler and a typewriter are available on the St. George campus. A library resource person in the Robarts Library provides liaison between the various on-campus libraries and with the W. Ross Macdonald School, the provincial co-ordinating agency for the provision of printed materials in alternative formats (tape, large print, or braille). Other equipment available includes personal amplification devices for hearing-impaired persons and computer hardware and software for visually impaired and learning-disabled students. The co-ordinator acts as liaison for the Educational

Support Program, administered by the Canadian Hearing Society for hard-of-hearing and deaf part-time students.

The university has published *A Guide for Disabled Persons* and two brochures, *Hearing Impairments* and *Learning Disability.* The office produces a monthly newsletter. For more information contact

Eileen Barbeau
Co-ordinator of Services to Disabled
Persons
214 College Street
University of Toronto
Toronto, Ontario M5T 2Z9
Telephone (416) 978-8060 (also TDD)

Trent University

Most special needs are easily accommodated at Trent. Learning-disabled students are granted academic concessions and have regular access to the Academic Skills Centre. Hearing-impaired and deaf students have access to either professors' notes or notetaker services. One main lecture hall is equipped with an infrared system, and receivers are available through the co-ordinator for the disabled. Books on tape are readily available for many courses, and others are read through the Ontario Audio Library situated on campus. Blind students may request a guide until routes to classes have been learned.

Trent was designed as a walking campus. The main campus spans the Otonabee River and is augmented by two downtown sites. The mobility-impaired are strongly urged to visit Trent for a complete tour of the facilities. HandiVan service is available through the city transit service and is arranged on an "as required" basis. Many physical accommodations have already been made and others are under way. However, Trent is still a restrictive environment for mobility-impaired individuals. For more information contact

Sheila Collett
Co-ordinator for the Disabled and Print-
Handicapped Services
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1384

University of Waterloo

Students with disabilities attending the University of Waterloo have access to door-to-door van service called Project Lift, which is provided by the City of Waterloo. All buildings have at least one ramped entrance. Most buildings have accessible washrooms or are linked to a building that does. Student housing has wheelchair-accessible rooms and provides 24-hour attendant care. Students with disabilities are given housing priority and may request an in-residence trial period to evaluate their living conditions. Both libraries are wheelchair-accessible and provide rooms where students may work with readers, tape information, or listen to tapes. A brailler and various technical aids are available.

A Centre for Sight Enhancement with up-to-date technical equipment has been established in the optometry clinic to aid visually disabled students.

The co-ordinator of services for disabled persons will help students with disabilities gain access to campus services and facilities. For more information contact

Co-ordinator of Services for Disabled
Persons
Florence Thomlison
Room 2051
Needles Hall
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 888-4635
TTY/TDD (519) 888-4044 (non-voice)

University of Western Ontario

At Western, most sidewalks have curb cuts, special parking provisions are made for drivers using wheelchairs, most buildings have accessible entrances and elevators, and the city Paratransit system can be used to travel to and from the campus. There are three accessible co-ed residences and two residence apartments equipped to accommodate physically disabled students.

Western has a senate policy requesting students with disabilities to notify the Co-ordinator for Disabled Students, before the beginning of the term, of their particular needs so that accommodations can be considered. The university operates a computer braille facility that gives visually impaired students access to computing facilities and allows them to prepare essays and write exams via a braille or large-print terminal. Study rooms containing a print magnifier, word processors, and four-track tape recorders are available in the main library for students with disabilities.

Some campus pay phones have been modified for the benefit of hearing-impaired students. There are two TDDs on campus for enhanced communication with the hearing-impaired. An FM system is available for emergency loan. Additional services may be made available for these students upon request.

Counselling and Career Development Services offers counselling support for students with disabilities. This department also houses a resource centre, which deals with most aspects of disabilities. The university has an ombudsperson who acts on behalf of students with disabilities, and there is student support group on campus. For further information contact

Susan M. Weaver
Co-ordinator for Disabled Students
Room 32, University Community Centre
The University of Western Ontario
London, Ontario N6A 3K7
Telephone (519) 661-2147 (voice and TDD)

Wilfrid Laurier University

The Central Teaching Building, the library, and the arts, student services, and Frank C
Peters buildings are accessible. The stude
union building is partially accessible. Class
room and examination assistance is provided, as is reserved parking. Requests
for special assistance of any kind should b
directed to the

Office of the Dean of Students
Wilfrid Laurier University
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2319

University of Windsor

The Office of Student Affairs is the point of contact for all students with disabilities at the University of Windsor. This office provides early registration and pre- and po
admission counselling and referral for academic, financial, career, and personal matters. The office also provides a transcr
tion service and can assist in providing notetakers, tutors, and attendant care workers. Particular course arrangements (alternatives to written examinations and assignments, extra time for exams, reader
and transcribers for exams, and special exam space) can be made with the conser
of the faculty.

Of particular interest to the mobility impaired: most buildings on the main campu
are accessible; three residence halls (Cartier, MacDonald, and Laurier) as well as all new residences have rooms modified for wheelchair access; and designated parkin
spots are available.

Of particular interest to the visually impaired: audio cassettes of textbooks can b
loaned through the Leddy Library, a volunteer reader service is available, four-track tape recorders are available in Student Affairs and the Leddy Library, and large-print magnifiers and computer access equipme
are available.

Of particular interest to learning disabled
the university provides psychometric testin
and learning and study skills assistance fo
students with learning disabilities to assist them in their educational decisions.
For more information on the above please contact

Steve Gill
Special Needs Co-ordinator
Office of Student Affairs
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 253-4232 ext. 3288

York University

York University provides ramped entrances and exits to most buildings, numerous sets of electronic door openers, adapted washroom facilities, and designated parking spots in key locations. The Office for Students with Disabilities advises, assists, and informs students with physical disabilities o
a wide range of services. These are: advis
ing students on academic, legal, and financial issues, providing mobility tours/
orientation, advising pre-university and ne

students, providing volunteers to assist students with reading, notetaking, as readers/writers for tests and examinations, mobility assistance, and advice on housing arrangements. Students with disabilities will receive priority in undergraduate and graduate residence, providing that applications are made early.

Two study rooms have been set aside in the Reserve Library for the use of students with disabilities, and one room is equipped with an Apple IIe computer and printer. Linda Hansen, in the Reserve Library, is available to assist students with book acquisitions and materials on tape and/or braille. The centre has also purchased several technical aids and devices: a Perkins brailler, a visualtek reader, a four-track cassette player. A Dectalk (providing computerized voice synthesis) for persons with visual impairments is available in the Scott Library. Several TDDs and FM systems for persons with hearing impairments, an ergometer (exercise equipment), and a pool lift to assist persons with mobility difficulties are also available.

In addition to offering its own services, the centre's staff can refer students to a broad range of general services and professionals in such areas as the writing workshop, study/learning skills, personal counselling, and financial aid. For further information, please contact:

Office for Students with Disabilities
Room 101, Behavioural Sciences Bldg.
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5140 (voice), (416) 736-5263 (TDD)

The Learning Disabilities Program provides a range of specialized services to students with learning disabilities. The program may provide or co-ordinate psycho-educational diagnostic assessments; advice on courses and programs for learning-disabled students; remedial and/or tutorial assistance; life-skills, career, individual, group, and/or family counselling; advocacy regarding alternative means of evaluation; and education of staff and faculty regarding learning disabilities. There may be a fee charged for some of these services. For more information contact

Learning Disabilities Program
Dr. Marc Wilchesky, Co-ordinator
Room 112, Behavioural Sciences Building
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5297

Native Studies

This section concentrates on postsecondary courses that may be of particular interest to both Native and non-Native people who wish to improve their appreciation of Native society and cultures. For Native students, this section also serves as a guide to special opportunities for completing or complementing postsecondary education.

The courses of study described in this section are offered by Ontario colleges of applied arts and technology and Ontario universities and include programs developed to meet the needs of Native people. Certain adult-training and apprenticeship programs that Native people have found particularly useful for improving their employment prospects are also outlined here.

The *Native Studies Programs* section details programs that may be valuable for those who want employment in community, social, and correctional services, or in Native and band council associations and businesses dealing with or within Native communities.

Special College of Applied Arts and Technology Programs

- **Akwesasne Law and Security Auxiliary Program**

St. Lawrence College, Cornwall
This 48-week program provides graduates with the knowledge and skills to act as auxiliary officers in the Akwesasne region. Contact the Native Studies Co-ordinator, St. Lawrence College, Cornwall, telephone (613) 933-6080.

- **Band Management**

Confederation College
The objective of this four-semester diploma program is to develop competent graduates who have acquired skills, knowledge, and awareness applicable to management positions in Native, non-Native, or government communities. Graduates may expect to be reasonably informed on current Native issues and be able to act as resource persons on a variety of topics within the Native community.

For further information contact the Supervisor of Native Programs, Confederation College, P.O. Box 398, Thunder Bay, Ontario P7C 4W1. Telephone (807) 475-6278 or toll-free 1-800-465-6961.

- **Forestry Technician**

Sault College
Sault College provides a program in Native resources via the Contact North distance education network. The forestry technician program is modified for Native students by using a combination of distance education and on-site delivery modes. Students require a sponsor with natural resource expertise willing to provide practical skills training in the student's home community.

- **General Arts and Science – Native Social Services Aide**

Sault College
This four-semester program meets the needs of rural and urban human services agencies and Native communities. Students gain a broad base of skills. Native studies include the history of Native peoples in Ontario and the study of relevant legislation. A supervised field-work placement is provided.

- **General Arts and Science -- Native Studies**

Cambrian College
This one-year postsecondary program has been specifically designed for Native students who wish to pursue a more general postsecondary education before committing themselves to a specific career path. This program will give students a solid foundation for pursuing postsecondary education; provide an opportunity for Native students to relate their identity and heritage; provide an opportunity for students to take Native studies subjects; and help students prepare themselves in English, mathematics, and science for further training.

Prerequisite: mature students – applicants who lack the minimum academic prerequisites but who are at least 19 years of age will be considered on an individual basis; or OSSD or its equivalent.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 7418.

- **General Arts and Science – Native Skills Training**

Cambrian College
This postsecondary program consists of a common first semester, followed by three semesters in a skills training program of the student's choice. The common first semester consists of the following areas of study: English 1050-4, math 0100-4, life skills NTS 1140-9, computer literacy 100-4. The subsequent three semesters will consist of a skills training program of the student's choice in the following areas: drafting, food preparation, heavy-duty equipment mechanic, industrial maintenance mechanic, machine shop, welding, carpentry, masonry, cabinet making, clerk typist, accounting assistant.

Admission requirements: the minimum requirement for admission to a postsecondary program is an OSSD (30 credits), or an OSSGD (27 credits), its equivalent, or mature student status.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 7418.

• General Vocational Preparation
Confederation College

The curriculum of this two-semester program is designed for Native students seeking entry and skill development towards registration in a college career program. This program also attempts to meet the cultural needs of Native students.

For further information contact the Supervisor of Native Programs, Confederation College, telephone (807) 475-6278 or 1-800-465-5005.

• Law and Security Administration – Native Justice Option
Cambrian College

This program prepares graduates for employment in areas of the criminal justice system where sensitivity to Native culture, aspirations, and issues is desirable. The program meets the requirements of the recognized law and security administration – police education component and is enhanced by strong course offerings in Native studies. Employment opportunities are varied and exciting. Graduates will possess the knowledge and skills to obtain employment with a variety of organizations and agencies (both Native and non-Native) in the criminal justice system, or to pursue further postsecondary education.

Admission requirements: the minimum requirements for admission to the program is an OSSGD (27 credits at the general or advanced level) or equivalent, as determined by the college, and completion of a program-specific questionnaire. The program is limited to an intake of 30 first-year students for semester 1. Because applications will greatly exceed the number of places available, the selection process will be competitive. A criminal record may be a serious impediment to employment in any field related to a law and security administration program.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 7418.

• Maintenance Management - Small Communities
Canadore College

This program prepares students to meet the needs of small municipalities and Native reserves that maintain community-owned buildings, facilities, and utilities. Courses relate to dealing with capital assets, buildings and equipment, maintenance personnel and systems, budgeting processes, and elected municipal and band representatives. Field placement ensures that graduates develop skills to enable them to gain entry-level employment in small municipalities and Native reserves. Graduates will find employment opportunities as maintenance managers and supervisors with small municipalities, Native reserves, institutions, and commercial enterprises.

• Native Alcohol and Drug Counsellor
Canadore College

This program trains graduates to function effectively as counsellors, specifically as alcohol and drug abuse counsellors, in areas where there are limited resources and serious social problems. Training covers the following areas: oral and written communications skills, team work and building interpersonal relationships, personal growth, ethics, values, counselling skills, methods of effective listening, and Native cultural, historical, spiritual, and political issues. Work experience in the field is mandatory and scheduled during the program, usually during December and from mid-February to mid-March.

• Native Child and Family Worker
Cambrian College

The Native child and family worker program is a new five-semester program. This is a limited-enrolment program; 35 students will be accepted. It provides an opportunity for Native students to develop the necessary skills to seek employment in the human services field. Students enrolled in the program will gain an understanding of the Native family and the Native community. They will be equipped to provide services to children and/or their families in a Native or non-Native setting and to organize band-based programs.

Admission requirements: the minimum requirement for admission to a postsecondary program is an OSSD (30 credits), or an OSSGD (27 credits), its equivalent, or mature student status.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 7418.

• Native Child and Family Worker
Confederation College

The purpose of this five-semester program is to develop effective helpers whose primary job interest is working with Native children/adolescents and their families. The recent thrust in the field of Native child welfare is preventative as well as rehabilitative. The workers are now assuming the role of a family support agent, with the focus on maintaining the child in his or her own home or community. Also, Native organizations recognize the need to create Native child and family services at the urban community and local reserve levels.

For further information contact the Supervisor of Native Programs, Confederation College, telephone (807) 475-6278 or 1-800-465-5005.

• Native Community Care, Counselling, and Development
Cambrian College

• Native Community Worker
Sault College

This four-semester diploma program is designed to meet the community development needs of Native communities and human service agencies with Native participation. Students gain a broad base of skills needed for employment as court workers, community developers, child welfare workers, and addiction counsellors. Native studies and field-work placements in relevant agencies are an integral part of this program. For further information, contact Co-ordinator of Native Programs, Sault College, 443 Northern Avenue, Sault Ste. Marie, Ont. P6A 5L3, telephone (705) 759-6774 or toll-free 1-800-461-2260.

• Native Counsellor
Northern College

The Native counsellor certificate program enables graduates to work as Native counsellors in private or public social agencies, community developments, and band organizations. Classroom theory is enhanced by field placements: five weeks in semester I and two days per week in semester II. Students also acquire skills in alcohol and drug education, counselling, interviewing, and assertiveness.

• Native Drug and Alcohol Counsellor
Northern College

The Native drug and alcohol counsellor program is designed to provide students with the practical intervention strategies for minimizing common problems arising from alcohol and drug use, and to build their confidence in dealing with drug- and alcohol-related problems. In addition to exploring the different stages of adult development and the changes within the family structure, students also study the specific and predictable effects of alcohol and drugs on the body. Particular attention is given to drug and alcohol counselling, and program participants are given the opportunity to gain practical experience during field placement

• Native Recreation Worker
Northern College

This one-year program focuses on leadership skills and is designed to provide students with the knowledge and abilities to plan and develop recreational activities for different age groups. Emergency first aid and accident prevention are included in this program of studies.

• Social Service Worker - Native
Northern College

The social service worker counsels and helps individuals and families understand and resolve their personal and social problems. The Native program option provides the social work graduate with expertise in working with Native clientele on reserves and with Native organizations and associations.

• Social Service Worker - Native
Canadore College
Increasing self-government by Native peoples has created a demand for trained Native social workers. The Native option will provide graduates to meet that demand. All social service worker students share common first and second semesters. Second-year students will be offered the Native option, which concentrates on Native issues and concerns. Students will participate in placements in Native service settings.

• Special Constable Worker
Northern College
The special constable worker program prepares graduates for a career in reserve policing. This program does not replace the formal training offered by the Ontario Provincial Police, the Ontario Police College, and employers of prospective reserve special constables; rather, the emphasis is on providing basic knowledge and skills in several component areas, including communications, social sciences, police studies, and life skills.

This program introduces students to law and helps develop attitudes conducive to effective and enlightened policing in a reserve community. It is the goal of the program to encourage interest in the field of policing and to motivate further study, as well as encouraging appreciation of the ways in which people live together and function in a reserve community.

Financial Assistance

Detailed information on financial assistance may be obtained from the financial aid administrator of the institution or from:
Student Support Branch
Ministry of Colleges and Universities
P.O. Box 4500
Thunder Bay, Ontario
P1B 6G9
Telephone (807) 345-4830
Toll-free 1-800-465-3013

Adult Training and Apprenticeship Programs

Manpower programs are offered by training centres that are generally operated through the colleges of applied arts and technology.

The adult training and apprenticeship programs include programs specifically designed for or adapted to the needs of Native people. Information regarding the adult training programs is handled by representatives of the colleges of applied arts and technology who are in contact with chiefs, band councils, locals, and individuals within the communities. Program information is also provided by the province for circulation through all Canada Employment centres.

Adult training programs are provided for persons wholly sponsored by the provincial and/or federal governments, for partially sponsored students, and for those who wish to pay their own fees and seek financial assistance through the Ontario Student Assistance Program (OSAP). Information on sponsorship can be obtained from Canada Employment centres, social counsellors, band councils, and the Department of Indian Affairs and Northern Development.

Almost 300 adult training and apprenticeship programs are currently offered, and a list can be obtained from the colleges of applied arts and technology or from the College Affairs Branch of the Ontario Ministry of Colleges and Universities. Many programs can be made available on the reserves. Programs requiring special facilities, however, are not offered outside established training centres.

• Specific Employment Programs for Native People
Several programs have been established in partnership with the Canada Employment and Immigration Commission to promote employment prospects for Native people. These programs are offered through established training centres and may be offered on a reserve, where feasible.

Academic Upgrading
Academic upgrading concentrates on the communications, mathematics, and science required to obtain and hold employment or to enter a skill program that leads to employment. Generally, individualized instruction is available so that the students may start at any time during the program and proceed at their own rate of learning. Life skills may be used in academic upgrading to assist the student to overcome earlier learning problems. Some programs are directly oriented to Native students and are taught on the reserves.

Appliance Servicing
Mobile teaching services will be taken to the reserves to teach Native people appliance servicing, with an emphasis on the use of propane gas.

Band Management
An "outreach" approach to band management has been developed by Confederation College.

Basic Water-Treatment Operation
An introduction for operators to the fundamentals of plant operations. The course covers such topics as bacteriological, physical, and chemical characteristics; coagulation and flocculation; sedimentation; water filtration; and chlorination. Offered at Northern College.

Building Custodian (Certified)
Northern College has adapted the College Affairs Branch urban program for janitors to be employed by band councils for their schools located on Indian reserves.

Cabinet Making and Fine Woodworking
Northern College can train Native students in cabinet making and fine woodworking. Graduates may find employment in custom furniture manufacturing, commercial cabinet making, and interior finishing.

Clerk/Typist
Northern College adapted this College Affairs Branch urban program to train Native people to be employed by band councils, Department of Indian Affairs and Northern Development offices, Hudson's Bay stores, and small businesses. Skills taught include typing, bookkeeping, basic accounting, stenography, and secretarial and clerical expertise. Short business and commerce courses can be moved from one small community to another.

Carpenter, Construction Trades, and Trades Helper
These urban programs have been modified to suit reserve locations, available materials, etc. Confederation College, Georgian College, Northern College, and Sir Sandford Fleming College have been prominent in this training area. The Apprenticeship Branch has made some concessions in the area of compulsory apprenticeship for carpenters, electricians, and plumbers when the training is to be put to use on the isolated reserve in order to improve living conditions. If the Native person wishes to leave the reserve, he/she would have to register as an apprentice in a particular trade before these skills could be put to use. Abatements or credits would be granted for the training.

Health Care Aide, Nursery Aide, and Nursing Assistant
These programs are standard. Generally speaking, the Native person has to leave the reserve for training in order to have the necessary clinical facilities available. Upon graduation, employment may be available at hospitals located near the reserves.

Heavy-Equipment Operator – Single Machine or Multiple Machine (eight pieces)
These courses are offered by Northern College to train Native students in the safe operation and maintenance of such equipment as bulldozers, loader scrapers, graders, tandem trucks, and excavators. Graduates will find employment on road-building, water main or sewer construction, and earthmoving projects.

Indian Economic Development
Available as a two-year, four-semester diploma program.

Logging and Small-Sawmill Operator
This program is offered at Canadore, Confederation, and Northern colleges in accordance with need.

Marine and Small-Powered Equipment Mechanic
Confederation and Northern colleges have offered this program extensively. Training

has ranged from 16 weeks to the full 40 weeks. On occasion, the Department of Indian Affairs and Northern Development has provided tools and a workshop, which are left in place for the use of the graduates when the program has been completed. Emphasis generally has been on snowmachine and outboard-marine repair and maintenance. This program is offered in accordance with need.

Native Community Care: Counselling and Development
This two-year Mohawk College diploma program is designed to help students study, understand, and develop skills that will help them become confident and able community health care workers in both local and cross-cultural situations. Students may specialize in community care, substance abuse, or mental health options.

Admission requirements: OSSD or equivalent; questionnaire. For further information, contact Mr. Ralph Scharf, Dean, Brant Campuses, (519) 759-7200.

Native Drug and Alcohol Counsellor
Students are taught to counsel Native people on the effects of alcohol on the community. This course is offered at Northern College. The graduates of this program will be hired in private or public social agencies, community developments, and band counsellor areas.

Small-Boat Construction, Repair, and Maintenance
Developed originally by Cambrian College for Manitoulin Island, this program has since been revised by the James Bay Educational Centre at Moosonee. Native craft construction is the main aspect, but the program also provides for the local repair of boats and thus holds down cost and time delays for such repairs.

Small-Business Management
Confederation and Northern colleges offer a postsecondary program for small-project developers to provide the managerial skills required to design, organize, and implement community programs. Sir Sandford Fleming College also provides training in small-business management, intended to result in the development of Native community-centred enterprises and employment.

Water-Distribution System Operation and Maintenance
A course intended to upgrade the knowledge and skills of the water-distribution system staff. The program covers such topics as water sources and treatment; water quality and problems; basic hydraulics; watermain appurtenances, pipes and joints; leak detection and fire-flow testing; breaks and repairs; cleaning, disinfection, and testing; corrosion; and plans and records. Offered by Northern College.

Water-Plant Preventive Maintenance
A course intended to provide basic maintenance and trouble-shooting skills to inexperienced water-treatment plant operators. The program covers such topics as maintenance of piping and valves; pumps; packing and seals; bearings; lubrication; Stanby power units; motors; drawings and equipment manuals. Offered by Northern College.

Courses Available at Colleges of Applied Arts and Technology

- **Applied Arts**

Durham
Canadiana

- **Continuing Education (Part-time – general interest)**

Cambrian
(Espanola)
Aerobic fitness
Babysitter training
Bookkeeping
Cooking for kids
CPR
First aid
French as a second language
Introduction to accounting
Introduction to IBM PCs, Lotus 1-2-3; Wordstar
Low-impact aerobics
Ojibway
Personal typing
Postnatal aerobics
Small-engine repair
Teenage aerobics
Universal gym

(Gore Bay, Kagawong)
Flower arranging
Heart-saver plus
Photography

(Little Current)
Babysitter training
First aid for kids
Karate
Lotus 1,2,3
Standard first aid

(Manitowaning, South Baymouth, Wikwemikong)
Babysitter training
Basic cardiac life support
Bookkeeping
Furniture making
Knitting and crocheting

(Massey)
Aerobic fitness
Babysitter training
Farm animals–selection and care
Job search
Ojibway
Peaches and cream grooming sessions
Universal gym
Yoga for fitness

(Webbwood)
Low-impact aerobics

(West Bay, Mindemoya, Providence Bay)
Basic cardiac life support
Dancercize
Introduction to Native art
Introduction to word processing

Confederation
Conversational Ojibway
Cultural awareness
Supervisory skills

Sault
Hairstyling
Introduction to Ojibway
Native people of Ontario

- **Manpower Retraining, Industrial Training, and Apprenticeship (Full-tim adult training)**

Cambrian
(Espanola)
Academic upgrading: levels 1 to 4
Health-care aide
Home support

(Little Current)
Dining room service
Food preparation (basic)
Orientation to home support

(Sudbury)
Community health representative program

(West Bay)
Academic upgrading: levels 1 to 4
Carpentry
Masonry

(Wikwemikong)
Academic upgrading: levels 1 to 4
Basic job readiness training
Carpentry
Community health representative program
Masonry

Canadore
Maintenance management - small communities (two years)
Native alcoholism counsellor (40 weeks)
Social Service Worker - Native (two years
Specialized training programs for reserve occupations (planned under Canadian J Strategies)

Centennial
For information on postsecondary program contact the college's School Liaison Office at (416) 694-3241 ext. 3312 or toll-free 1-800-268-4419.

Confederation
Academic upgrading
Band management
Building construction and maintenance
Community health worker
Construction trades helper
English as a second language

Furniture building
Heavy-equipment service
Residential plumbing
Tourist oufitting and guiding

Fanshawe
Fanshawe offers a two-semester basic training for skill development – university and college entrance program for Native students. Entrance requirement is a secondary school graduation diploma. Students upgrade in mathematics, communications, and science.

Georgian
Georgian offers academic upgrading and some skill programs on various reserves in the region, and offers a Native education postsecondary program at Orillia and Christian Island.

Humber
Contact the college for information.

Lambton
Academic upgrading (levels 2, 3, and 4)
Band management

Loyalist
The Mohawks of the Bay of Quinte/Tyendinaga Reserve is located in the region served by Loyalist College. Native students apply to and register in a wide variety of continuing-education courses, skill programs, and postsecondary programs. A full-time Native counsellor is available in the Student Services Department to assist all Native students in their transition to college.

Mohawk (New Credit Campus)
Basic job readiness training
Microcomputer operator
Full- and part-time courses are offered on the New Credit Reserve for residents of the three reserves in the Mohawk College area.

Northern
Academic upgrading
Alcohol and drug-abuse counsellor training
Business administration
Construction trades helper (plumbing and electrical)
Core program
Early childhood education
Fine arts and crafts
General vocational preparation
Native counsellor
Native fine arts and crafts
Native recreation worker
Native social service worker
Nursing (three-year diploma program)
Office administration
Ontario basic skills
Special constable
Word processing clerk

Sault
(Sault Campus)
Basic training for skills development
Cabinet making
Clerk typist
Computer maintenance technician
Computer program technician
Computerized accounting
Medical dicta typist
Microcomputer operator
Stationary engineer
Welding

(Wawa Campus)
Carpentry
Office systems

Seneca
Seneca College offers courses and programs of interest to Native students.
Academic upgrading
Audio-visual technician
Coaching techniques (gymnastics and figure skating)
Design arts
Early childhood education
General arts and science
Government administration
Law enforcement
Outdoor recreation technician
Parks operations and services
Recreation facilities administration
Tourist industry administration
Various business programs
Various computer programs
Various office administration programs
Various technology programs

Sheridan
Academic upgrading
English as a second language

• Social Services

Confederation
Cultural anthropology
Group-home management
Native alcoholism worker
Native community worker

Sault
Child care worker
Developmental services worker
Early childhood education
Native social services aide

St. Clair
Basic job readiness training (Native)

Special University Programs

• Certificate Program in Journalism for Native People
University of Western Ontario
This is a three-term, twelve-month program that begins in September and covers a full calendar year.

Applicants for admission to the certificate program in journalism for Canadian Native people must meet the requirements of the University of Western Ontario. Applicants should note in particular the admission regulations governing mature students. Prospective students should have at least Grade 10 or equivalent, some experience in journalism, a commitment to working in the field of communications, and three letters of recommendation. Students are expected to be competent in English and may be required to furnish proof of their proficiency.

The deadline for completed applications is May 1.

• Law
University of Ottawa
Queen's University
University of Toronto
University of Western Ontario
University of Windsor
York University
All Ontario university law schools encourage applications from Native people in order to expand meaningful legal representation on their own behalf.

In order to ensure a reasonable chance of academic success, the law schools fully endorse the special pre-law summer orientation program for Native students at the University of Saskatchewan. Those who have not completed this program but show marked potential for advancement may be accepted.

Qualified status Indian students are eligible to receive the full range of financial support benefits provided by the federal Department of Indian and Northern Affairs, for both the pre-law and the law school programs. Similar assistance is provided for Métis and non-status Indian students by the federal Department of Justice.

• Native Management and Economic Development Program
Trent University
This program offers an integrated approach to the development of management and entrepreneurial skills. It is jointly sponsored by the administrative and policy studies program and the Department of Native Studies, and blends a study of Native culture with management and economic development skills. The program offers four options:

1. a two-year diploma for students who have the equivalent of Ontario Grade 12 or qualify as mature students. Students must complete eight to eight and one-half courses, of which seven must be university credit courses. Students of Native ancestry are encouraged to enrol;
2. a three-year ordinary Bachelor of Arts degree, with an emphasis in Native management and economic development, including six Native studies courses and four administrative and policy studies courses;
3. a four-year honours Bachelor of Arts degree - same as the three-year program, with the completion of four additional academic credits and an additional academic year;
4. a Bachelor of Administrative and Policy Studies degree, with an emphasis in Native management and economic development. This is a four-year, 20-course program requiring a cumulative average of B- to remain in the program.

• Native Nurses Entry Program

Lakehead University

The Native nurses entry program is a nine-month preparation program designed to provide the necessary skills and academic preparation required for successful completion of the four-year Honours Bachelor of Science in Nursing degree program. Applicants who may be considered for admission to the Native nurses entry program include:

1. Adult students: Applicants who are at least 21 years of age in the calendar year of entry, who are residents of Canada, and who have not attended postsecondary institutions (full time) for two years prior to their admission will be considered as adult students.
2. Extraordinary admissions: The university is prepared to consider applicants for admission who have been away from formal education for at least two years at any time for reasons beyond their control. Applicants will be interviewed by the registrar or a designate. Each case is considered on its own merits.
3. Health care workers (community health representatives and RNAs) who have successfully completed a minimum of Ontario Grade 10.
4. Individuals who have successfully completed at least one full year of study at the community college level in child care, community work, or a related field.

The applicant must be of Native ancestry.

Queen's University

The School of Nursing accepts Native applicants who do not have regular entrance requirements if they are recommended for admission from the Native Access Program of the University of Saskatchewan.

• Native Studies Programs

Laurentian University

Laurentian offers a general Bachelor of Arts program in Native studies through the Department of Native Studies of the University of Sudbury, which is federated with Laurentian.

The program is intended to acquaint students as fully as possible with the situation of Native people, especially those of Canada. To this end, studies range from pre-Columbian time, through the arrival of the Europeans to the present-day renaissance, and cover education, legal rights, language, the application of ancient insights to modern sociological and ecological problems, and twentieth-century aspirations.

The aim of the program is to bring the students into direct contact with the area being studied. Artifacts, films, tapes, and other audio-visual resources are used, oral literature is studied, and field trips are arranged. Representatives of the Native population are invited to take part in the program.

University of Toronto, Erindale Campus

Erindale Campus offers a major (three-year) program that examines the cultures of the past and present as well as the history and theoretical framework of the interaction of Native and colonizing peoples. The program is interdisciplinary, combining the courses and approaches of anthropology, history, sociology, and geography. It complements programs with a focus on North American studies, ethnic/racial history, and environmental studies. Students may pursue special interests through an independent study course.

University of Toronto, St. George Campus

The University of Toronto also offers a Native health careers program. This program provides student services to persons of aboriginal ancestry who are interested in careers in the health care professions such as medicine, dentistry, nursing, physical and health education, and health administration. The program is involved in the recruitment of students; admissions advocacy; support services such as academic tutoring, counselling, housing, daycare referrals, application preparations, assistance in finding employment; and cultural workshops. Telephone (416) 978-8227.

Trent University

Trent University offers the following Native studies programs.

Diploma program: Intended for Native students who have Grade 12 or who would qualify for admission to Trent under mature student guidelines. Students may enrol in the Native studies or Native management and economic development diploma program. The program has three unique features: a six-week intensive summer course designed to prepare students academically, a light load during the regular school year, and intensive personal support throughout the program of study. The diploma is awarded after two years of successful study, and students who complete the program may transfer their credits toward a Bachelor of Arts degree.

Bachelor of Arts degree: This three-year (ordinary) or four-year (honours) degree program is intended to provide Native and non-Native students with the opportunity to study aboriginal peoples from a unique interdisciplinary approach. Students wishing to major in Native studies are advised to consult the department for cognate courses in other disciplines such as anthropology, Canadian studies, and sociology. Single majors in the three-year program are required to take a minimum of six courses in Native studies. Joint majors are required to take a minimum of five Native studies courses. Students may do an honours year in Native studies; single majors are required to do a minimum of nine courses over four years, and joint majors are required to complete seven in Native studies.

Graduate studies: The Master of Arts program is part of the Frost Centre graduate program in Canadian heritage and development studies. The Native studies component emphasizes community-based socioeconomic development, community development, Native history, government policy, or closely related topics.

• Social Work

Laurentian University

The goal of the honours Bachelor of Social Work (Native human services) program is t provide an accredited social work degree that offers knowledge, skills, and experience to work effectively with Native and non-Native communities. The main objectives of the program are to impart to its graduates:

1. the ability to apply professional social work methods at a level of competence suitable for beginning practice, and in a manner that is culturally appropriate to First Nations individuals and communities;
2. a good understanding of the cultural commonalities and differences that affect helping relationships with Native people;
3. an awareness of social problems and concerns of Native people, and the effect o these on their social and emotional development;
4. sound knowledge and appreciation of First Nations' history, culture, worldview, an psychology;
5. a broad awareness of the political, social, educational, and economic aspects of development in Native urban and reserve communities;
6. an understanding of the judicial system and provincial and federal legislation affecting First Nations; and
7. a deep commitment to the ethics and values of the social work profession.

• Sociology and Anthropology

Lakehead University

B.A. (Native studies, anthropology major). A study of Indian, Métis, and Inuit life in considerable detail.

• Summer Employment Program*

McMaster University
Trent University
University of Toronto
University of Western Ontario

This program is designed to acquaint Nativ secondary school students with the kind of environment in which they might find themselves if they decide to continue their studies at the postsecondary level, by providing meaningful employment for these students on a university or college campus.

The summer employment program for Native students offers the following advantages:

1) permits Native students to become familiar with a postsecondary institutional environment;
2) offers summer employment opportunities to Native students;

3) offers assistance to university and/or college staff by enabling them to hire summer help.

Sault College and the University of Western Ontario, in addition to offering Native student summer employment opportunities, have a postsecondary co-ordinator/adviser to help Native students and supervisors. At Sault College, the co-ordinator also administers special projects for the Sault College Native Student Assembly.

Note: The lack of contact and familiarity with the postsecondary institutional environment is a significant factor in Native students' not continuing their studies at the postsecondary level, even when they are academically qualified and financially able to do so.

• Teacher Education

Teacher education programs for Native people have been instituted at two universities in Ontario: Lakehead University and Laurentian University. These programs are intended to increase the number of Native teachers. Also, skilled teachers of Native ancestry will be of great assistance in responding to the needs of children in the schools in Native communities.

Lakehead University

Lakehead University offers a four-year undergraduate program in teacher education for Native people. Students enrol in a concurrent program, Bachelor of Arts (General) – Bachelor of Education (Native Education), which is intended to increase the number of qualified Native teachers in northwestern Ontario and to prepare them to meet the special social and cultural needs of Native communities. Graduates will be recommended for an Ontario Teacher's Certificate. Lakehead University also offers a Native Language Instruction Program, designed for individuals who will instruct either (a) individuals whose first language is Algonquin or (b) individuals whose Native language is a second language to English.

Admission to the first year of the Bachelor of Arts (General)/Bachelor of Education (Native Education) degree program requires satisfactory completion of an OSSHGD or OSSD, including six OACs or the equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC English in their program, must be of Native ancestry, and must be recommended by a Native organization.

Laurentian University

The Faculty of Education at Nipissing College offers a one-year consecutive program leading to a Bachelor of Education degree. This program prepares candidates for teaching in Ontario schools and meets the requirements of the Ministry of Education for teacher certification.

As part of this program students may take an optional course entitled the Education of Native Canadians. This course is an introduction to curriculum construction for schools attended by children of Native Canadian ancestry. Although this course does not lead to a special certificate, it does provide an opportunity for practice teaching in Manitoulin Island reserve schools or in small Native communities bordering on James Bay.

Admission to this program requires an approved degree from an accredited university.

A Native classroom assistant certificate is granted to successful graduates of a program offered at the Laurentian campus by the Faculty of Education, Nipissing College, in co-operation with the Department of Native Studies. The program consists of three non-credit five-week courses, each to be taken in a separate summer session.

The program is open to persons of Native Canadian ancestry who have been selected by the responsible authorities of their reserves. For further information write to the Dean of Education, Nipissing College, Box 5002, North Bay, Ontario P1B 8L7.

• Transitional Year Program

University of Toronto

For information on this program please refer to the University of Toronto section.

Courses Available at Ontario Universities

• Native Studies

Lakehead

Elementary Ojibway or Cree, Algonquian, Iroquoian

Laurentian

Aboriginal languages in the contemporary context
Aboriginal peoples in the international community (the fourth world)
Aboriginal people: family and community
Aboriginal people and the criminal justice system
Advanced Cree
Advanced Ojibway
An introduction to Cree
An introduction to Ojibway
Canadian law, politics, and aboriginal people
Contemporary Native issues
Culture, behaviour, and the identity of the Native person
Education and Native people
Independent reading and research
La religion des Amérindiens du Canada
Native arts of the Americas: retrospect and transition
Native people and newcomers in Eastern Canada
Native people and newcomers in Western Canada
Nature and man: A Native view
North American Native people: tradition and culture
Original peoples of Central and South America
Seeing with a Native eye
Selected themes
Social policy and family law with Native people

Trent

Native societies of Canada
Introduction to Native studies
Politics and Native peoples
Iroquois culture and traditions
The Algonkian identity
Native identity development
History of the Indians of Canada
Social services and the Native people
History and politics of Métis & non-status Indians
Native community development
Urbanization and the Native peoples
Education and the Native peoples
Law and the Canadian Indian
Community service methodology
North American Indian metaphysics
Native art of Canada
Oral Mohawk
Oral Ojibway
Advanced Mohawk language and culture
Native peoples in literature
Advanced oral Ojibway
Research methodology

• Sociology and Anthropology

Western

Contemporary Natives of Canada

• Teacher Education

Lakehead, Laurentian, Western

See the *Teacher Education* section of this directory for details.

Further Information

For more information on the programs listed in this section, check the individual college or university sections in this publication, consult the institutions' calendars (available in secondary school guidance offices), or get in touch with the registrar's office.

Study Opportunities for Senior Citizens

• General Information

Colleges of Applied Arts and Technology

Most of Ontario's colleges of applied arts and technology offer postsecondary credit courses to senior citizens through their departments of continuing education or extension for a nominal fee of per course. There are no specific admission requirements, and senior citizens are normally admitted under the mature students category. They are generally expected to meet normal academic standards and to be responsible for any incidental course fees that may be incurred for materials, books, labs, etc.

Reduced fees for both full- and part-time studies by senior citizens are offered by Cambrian, Canadore, Conestoga, Fanshawe, George Brown, Humber, Loyalist, Northern, St. Lawrence, Sheridan, and Sir Sandford Fleming colleges. At Algonquin, persons aged 60 and over may register for C.E. classes subject to class size constraints for a special $5 fee in any of the funded courses. Algonquin's policy for full-time programs is currently under review. Centennial, Confederation, Durham, Mohawk, Niagara, and St. Clair colleges offer reduced fees for senior citizens for part-time studies only. The remainder of the colleges do not waive normal fees for senior citizens who wish to study as full-time students. Colleges may differ somewhat in their admission regulations; prospective students are advised to check with the institution they want to attend.

Special Programs

Courses dealing with retirement planning and the problems of retirement are available at Canadore, Centennial, Conestoga, Durham College Conference Centre, Loyalist, Mohawk, Sheridan, and Sir Sandford Fleming. Cambrian, Canadore, Sault, and Seneca colleges offer courses of interest to senior citizens at off-campus locations.

Cambrian College hosts Elderhostel, a residential academic program for people 60 years of age and over. During the one-week program, participants live in the college residence, attend classes, and participate in a variety of extracurricular activities. The program also includes a commuter package for in-town residents who wish to participate in Elderhostel.

Conestoga College and the Stratford Festival co-operate to offer an Elderhostel in Stratford during the fall. Participants gain a knowledge of theatrical arts and crafts and learn about Stratford-area history and architecture.

Confederation College hosts Elderhostel activities during the summer months. Residence facilities are available on campus.

George Brown College offers a number of educational opportunities for seniors. The Seniors' Access Institute, which is in the college's Community Outreach Department, sponsors a number of programs, courses, and activities for seniors. Senior citizens are able to study in selected daytime and evening credit courses, which are offered at a reduced tuition, and are given assistance in selecting daytime courses and in registration. The George Brown College Seniors' Association provides non-credit courses for seniors; a small fee is charged for these courses. George Brown College also offers three one-week Elderhostel programs in June and July.

Georgian College has a Gold Card Club for seniors, which enables them to participate in courses, workshops, and seminars. It also offers reduced prices for most courses, dining facilities, and bookstore services.

Humber College offers an extensive variety of specialized courses for senior citizens through its Third Age College.

Lambton College offers the Actively Retired Citizens Program (ARC).

Mohawk College offers Elderhostel in July. Participants sample campus life by living in dormitories, taking college courses, and using campus facilities.

Niagara College offers Elderhostel, a learning/hostelling experience, each year in the city of Niagara Falls.

Northern College offers Elderhostel at its Kirkland Lake campus. People over 60 years of age participate in a college educational experience for a week, which includes three short courses and a stay in a student residence. In Timmins, Northern College co-ordinates part-time courses in senior citizens' group homes three times a year.

Elderhostel is hosted at Sheridan College's Credit Valley campus. Programs are open to anyone 60 years of age or older, or the spouse or companion of someone of that age, regardless of educational background. Enrolment is limited to 40 participants.

Universities

Both regular and part-time university studies are available to senior citizens, and nearly all universities offer free tuition. There are no admission requirements specific to senior citizens except proof of age. Several universities admit, as senior citizens, students who are at least 60 years of age, but most require proof that students are 65 years of age or over. Students must be Canadian citizens or permanent residents.

Senior citizens are normally admitted as mature students. Those who wish to enter a program of study leading to a degree must demonstrate the academic ability required to satisfactorily complete university level courses. Most universities set a one-year period of probation for assessment of this academic ability. General aptitude tests may also be required.

The majority of senior citizens enrolled i Ontario universities are taking part-time studies for personal interest.

Since tuition is waived for senior citizens entry to courses that have restricted enrolments may be denied in some instances. Such courses are generally high-demand courses or are associated with professiona (career-oriented) schools and are usually less interest to senior citizens. In all other respects, senior citizens enjoy the same privileges and are governed by the same regulations as regular students.

Special Programs

Through its unique participation program, the Volunteer Committee of the President' Advisory Committee on Senior Involveme at Ryerson, Ryerson offers seniors a wide range of opportunities for involvement in t Ryerson community. Seniors assist in the library, help international students meet Canadians, act as advisers to students o special research projects or as guest examiners for design projects, serve as tuto trace "lost" alumni, and serve on numerou committees.

Day and evening study

Brock University offers a variety of programs aimed at senior citizens. Tuition fees in university credit courses are [illegible] for adults over the age of 60. For details, please contact the Registrar's Office at th university.

Carleton University offers free tuition to persons 60 years of age and older who ar registered for credit courses. Reduced fee are offered in non-credit courses. Counse ing is available through Carleton's School Continuing Education. Week-long Elderho tel programs are offered during the summ Participants live in residence on campus, take three non-credit courses, and enjoy various activities. The co-ordinator, Bonni Schmidt, can be reached at (613) 788-35

At the University of Guelph, senior citizens (at least 65 years of age on the fi day of the month in which registration for semester occurs) who are admitted for registration will be exempted from paying tuition, student organization, and other fe

At Lakehead University, tuition fees for credit courses are waived for individuals 6 years of age and older by September 30 the academic year. Enrolment may be restricted in limited-enrolment courses. S dents are responsible for the costs of books, supplies, and incidental fees.

Laurentian University offers, for a nomi fee, some non-credit courses specifically designed for the over-50s. Free tuition is fered to seniors over 60 years of age in credit courses in which seniors attend regular classes with students of all ages. Counselling is available at the Centre for Continuing Education and Part-Time Studies.

At McMaster University, senior citizens may take credit and non-credit courses fr of tuition, subject to meeting academic requirements.

The University of Ottawa offers a variety of credit and non-credit programs and special interest courses aimed at senior citizens. Senior citizens are eligible to study in day, evening, and weekend programs throughout the academic year and during the summer session. The university's continuing education office sponsors the Elderhostel program during the summer. Tuition fees in university credit courses are waived for students over the age of 60.

Queen's University offers free tuition for credit courses to persons 65 years or older who meet regular admission requirements. During the summer, week-long Elderhostel programs are offered. Participants in the programs live in residence on campus, take three non-credit courses, and enjoy a varied activity and entertainment schedule. The director of enrichment studies at Queen's is Doug Thompson, who can be reached at (613) 545-2473.

Ryerson Polytechnical Institute provides those 60 years of age and over with personalized assistance in selecting courses and in registration. A number of special fitness courses designed for seniors, such as swimfit and stretch and tone, are offered by the Recreation and Athletic Centre at Ryerson. A special membership fee is available to seniors, which entitles them to full use of the centre, seven days a week. Ryerson offers seniors a variety of study options in both day and evening courses. A limited number of spaces are reserved for senior students in several daytime credit courses. Seniors may also apply for admission to other day courses as "special students". Admission is subject to space being available and to regular admission procedures. Some courses may require a prerequisite or the approval of the instructor. All daytime credit courses and most evening courses are tuition-free for all persons 60 years of age and over. Fall classes begin in early September, and winter classes begin in early January. Supplies fees may be levied in certain courses. In addition, a number of courses designed especially for seniors are offered in the fall, winter, and spring. A small fee is charged for these courses. Ryerson also offers two one-week Elderhostel programs in May. For information on registration procedures, course details, or senior involvement at Ryerson, contact Pam Hitchcock, Co-ordinator, Seniors' Studies, at (416) 979-5103.

The University of Toronto offers free tuition in degree credit courses for seniors 65 and over through its college for part-time studies, Woodsworth College. These courses start in September, January, and May, days or evenings, and prospective students should make an appointment in advance to discuss their course selection with the Co-ordinator of the Senior Citizens' Program. Seniors attend regular classes with students of all ages and may eventually earn a University of Toronto degree by successfully completing at least fifteen courses. Some seniors are content with earning the Certificate of Merit from Woodsworth College for the successful completion of at least six courses. For further information or registration procedures, course details, and other opportunities for senior involvement at the University of Toronto, contact June Straker, Co-ordinator, Senior Citizens' Program, at (416) 978-2411.

Trent University offers counselling for senior citizens through its Julian Blackburn Centre for Continuing Education and offers free tuition in credit courses for seniors over 60 years of age.

At the University of Waterloo, Canadian citizens or permanent residents 65 years of age and over who register for degree credit courses will receive a bursary equivalent to the cost of tuition. This bursary will be awarded at the time or registration. Students will be responsible for all other fees connected with their course or registration. A number of credit courses and public lecture series are offered by the university at various off-campus locations, and senior citizens are invited to attend. The University of Waterloo mature student services co-ordinator offers programs and services for all mature students, including seniors.

At the University of Western Ontario, individuals 60 years of age or over may study in credit or non-credit courses tuition-free. There is a small administrative fee for non-credit courses, and students are responsible for the cost of books and supplies in credit courses. Counselling services are available to the new or prospective senior student, as are academic counselling for course-selection assistance and personal counselling. Western is involved in the Elderhostel program and offers a non-credit course called "Are You Ready for University" to help adult/senior students develop learning skills. Courses are offered days and evenings. There is a limit on the number of non-paying senior students registered in any non-credit course, and some credit courses have restricted enrolments, which exclude senior students studying tuition-free. Senior students at Western have access to all student services. For further information call the Counselling Office at (519) 661-3635.

At Wilfrid Laurier University, senior citizens (60 years of age or older) will be admitted to part-time studies regardless of previous academic background. They may register in courses for credit or as audit students. The tuition fee will be waived for part-time studies. The normal academic regulations will apply. Senior citizens may also be admitted to full-time studies on an individual basis, but normal fees will be applied.

The University of Windsor offers free tuition for Canadian citizens 60 years of age or older. Counselling is offered through the Division of Continuing Education, and applicants may be admitted to various programs even if they do not meet the regular admission requirements.

York University offers free tuition in degree credit courses to persons 60 years of age or older. Tuition waiver forms may be obtained from and submitted to the Financial Aid Office, and must be accompanied by acceptable documentation of age, citizenship, and residence.

• Further Information
The following may be contacted for further information on programs and facilities for senior citizens.

Colleges of Applied Arts and Technology
Admissions Office
Algonquin College of Applied Arts and Technology
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7606
Toll-free 1-800-267-7061 (Ont., Que., N.B., N.S., P.E.I.)

Continuing Education Division
Cambrian College of Applied Arts and Technology
1400 Barrydowne Rd., Station A
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101
Toll-free 1-800-461-7145

Chairman, Part-Time Studies
Canadore College of Applied Arts and Technology
100 College Drive
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 388
Toll-free 1-800-461-7340

Associate Dean
School of Continuing Education
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 3379

Director, Continuing Education
Conestoga College of Applied Arts and Technology
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 748-5220 ext. 404

Dean of Continuing Education
Confederation College of Applied Arts and Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
(Toll-free for Northwestern Ontario residents 1-800-465-6961)

Dean of Continuous Learning
Durham College of Applied Arts and Technology
Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210 ext. 262
Toll-free 1-800-668-5843

Registrar
Fanshawe College of Applied Arts and Technology
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4277

Susan Rudin
Co-ordinator, Seniors' Programs
George Brown College of Applied Arts and Technology
P.O. Box 1015, Station "B"
Toronto, Ontario M5T 2T9
Telephone (416) 944-4522

Chairman, School of Continuous Learning
Georgian College of Applied Arts and Technology
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951 ext. 542

Director, Admissions
Humber College of Applied Arts and Technology
P.O. Box 1900
Rexdale, Ontario M9W 5L7
Telephone (416) 675-3111 ext. 4219

Registrar
Lambton College of Applied Arts and Technology
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751 ext. 295

Dean of Continuing Education
Loyalist College of Applied Arts and Technology
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 969-1913

Dean of Part-Time Studies
Mohawk College of Applied Arts and Technology
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2219

Director of Continuing Education Services
Niagara College of Applied Arts and Technology
Woodlawn Rd., P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 514

Dean of Business and Industrial Training
Northern College of Applied Arts and Technology
Highway 101, P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211

Elderhostel Co-ordinator
Northern College of Applied Arts and Technology
Kirkland Lake Campus
140 Government Road East
Kirkland Lake, Ontario P2N 3L8
Telephone (705) 567-9291

Dean, Continuing Education
St. Clair College of Applied Arts and Technology
2000 Talbot Rd. W.
Windsor, Ontario N9A 6S4
Telephone (519) 966-1656 ext. 575

Registrar
St. Lawrence College of Applied arts and Technology
2288 Parkedale Ave.
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

Admissions and Academic Records Office
Sault College of Applied Arts and Technology
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 759-6700
Toll-free 1-800-461-2260

Registrar
Seneca College of Applied Arts and Technology
1750 Finch Ave. E.
North York, Ontario M2J 2X5
Telephone (416) 491-5050

Continuing Education Division
Sheridan College of Applied Arts and Technology
178 South Service Road
Oakville, Ontario L6J 2X5
Telephone (416) 842-0105

Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
526 McDonnel St.
Peterborough, Ontario K9J 7B1
Telephone (705) 749-5500
Toll-free 1-800-461-6423

Universities

Assistant Registrar, Admissions
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

School of Continuing Education
Carleton University
Rm. 302, Administration Building
Ottawa, Ontario K1S 5B6
Telephone (613) 788-3500

School of Part-Time Studies and Continuing Education
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120

Director of Continuing Education
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8210
Toll-free 1-800-465-3959

Director, Centre for Continuing Education and Part-Time Studies
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3930

Office of the Registrar
Nipissing College
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450 ext. 2293

Associate Registrar (Liaison and Admissions)
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4796
or, for part-time studies,
Co-ordinator, Part-Time Degree Studies
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4325

Director of Admissions
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3928

Admissions Officer
Part-Time Studies
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2218

Information Centre
Ryerson Polytechnical Institute
350 Victoria St.
Toronto, Ontario M5B 2K3
Telephone (416) 979-5036

Co-ordinator of Senior Citizens Program
Woodsworth College
University of Toronto
Toronto, Ontario M5S 1A9
Telephone (416) 978-2411

The Registrar
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1215

Correspondence Office
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 888-4050

Faculty of Part-Time and Continuing Education
University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 679-3632

Director of Continuing Education
Wilfrid Laurier University
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 4447

Director of Continuing Studies
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 973-7079

Director of Admissions
York University
4700 Keele St.
Downsview, Ontario M3J 1P3
Telephone (416) 736-5100

Selected Reference Publications

Some of these publications are available in secondary school guidance offices, public libraries, and at college and university admissions offices and libraries. All prices are subject to change.

Careers

Career Selector Free
Data on over 150 careers – nature of work, training, qualifications, remuneration, etc.
Ontario Women's Directorate
Suite 200, 2nd Floor
480 University Avenue
Toronto, Ontario M5G 1V2
Telephone (416) 597-4605

Health Career Paths $3.50
A booklet listing the entrance requirements, length, and location of programs leading to health careers in Ontario.
Ontario Hospital Association
150 Ferrand Drive
Don Mills, Ontario M3C 1H6
Telephone (416) 429-2662 ext. 2333

Jobs for Your Future $3.50 (add $1 for handling)
A booklet on how to select the career that's right for you. Also available in French.
Bridging the Gap
155 College St.
Toronto, Ontario M5T 1P6
Telephone (416) 660-1076

OISE PRESS – Guidance Centre
Contact OISE Press – Guidance Centre at the Ontario Institute for Studies in Education, 252 Bloor St. W., Toronto, Ontario M5S 1V5 for a complete listing of all the occupations described in the G. C. Occupational Information Monograph series (also available in French) as well as a copy of their annual catalogue. Telephone (416) 926-4723; Fax (416) 926-4725.

Student Guidance Information Service (SGIS) Provides information on over 500 occupations and their educational requirements, and on approximately 200 postsecondary institutions and their programs. This service is available to students in Grades 7 to 13 in all publicly supported schools in Ontario. See your guidance counsellor for assistance.

Education

Accredited Institutions of Postsecondary Education, Programs, Candidates 1988-89 $34.95
Annual listing by the American Council on Education of accredited colleges and universities in the United States. Available in Canada from:
Collier Macmillan Canada Ltd.
539 Collier Macmillan Drive
Cambridge, Ontario N1R 5W9
Toll-free 1-800-265-8669/8674 (orders), 1-800-265-8672 (customer service)

Commonwealth Universities Yearbook 1989 $215 (prepaid)
A directory to the universities of the Commonwealth. Available in Canada from:
Association of Universities and Colleges of Canada
Publications Department
151 Slater St.
Ottawa, Ontario K1P 5N1

Directory of Canadian Universities 1988/89 $14.00 (prepaid)
Basic information on 71 universities and their affiliated colleges.
Association of Universities and Colleges of Canada
Publications Department
151 Slater St.
Ottawa, Ontario K1P 5N1

Higher Education in the United Kingdom 1990-91 $29.95
A handbook for students and their advisers.
Longman, c/o Addison Wesley
95 Church Street
White Plains, N. Y. 10601 U.S.A.
Telephone (312) 836-4400

Peterson's Guide to Four-Year Colleges 1990 $25.95
Complete information on universities in Canada and the United States.
Book Order Department, Monarch Books
5000 Dufferin Street
Toronto, Ontario M3H 5T5

Spectrum 90 Series (4): Ontario $12.95
Information on colleges, universities, and other education in Ontario. Editions also available for the Atlantic, Quebec, and Western regions.
Guidance Centre, OISE Press
252 Bloor St. West
Toronto, Ontario M5S 1V5
Telephone (416) 926-4723

Tour d'horizon Gratuit
Guide de l'éducation postsecondaire en Ontario à l'intention des Franco-Ontariens cours dispensés, etc. Unité des renseignements au public
Ministère des Collèges et Universités
Edifice Mowat, Queen's Park
Toronto (Ontario) M7A 1L2

University Education at a Distance: Opportunities in Ontario 1990-91
Calendar of Distance Education Courses
A copy may be obtained free of charge from the individual universities or by writing to:
Council of Ontario Universities
130 St. George Street, Suite 8039
Toronto, Ontario M5S 2T4
Telephone (416) 979-2165

Financial Aid

The following information is available free from
Student Support Branch
Ministry of Colleges and Universities
P.O. Box 4500
Thunder Bay, Ontario P7B 6G9
Tel. (807) 345-4830
Toll-free 1-800-465-3013

Aird Scholarship
An application form and information sheet for students with disabilites who are planning to enter their first year of full-time postsecondary study. Bilingual.

Bursary Program for Francophones Outside of Quebec
An application form and brochure explaining eligibility and application procedures for the program. Funded by the Secretary of State of Canada. Bilingual.

Fellowship for Studying in French
An application form and information sheet for students interested in studying French for the first time at the postsecondary level. This program is funded by the Secretary of State of Canada. Bilingual.

Ontario Graduate Scholarship Program
A brochure explaining eligibility and application procedures for the program. Bilingual.

Ontario-Quebec Exchange Fellowship Program
A brochure explaining eligibility and application procedures for graduate students wishing to continue their studies in the province of Quebec. Bilingual.

Ontario Special Bursary Program
A bilingual application form outlining provincial assistance for needy, part-time, and upgrading students.

Ontario Student Assistance Program (OSAP)
A booklet outlining provincial and federal financial assistance available to Ontario postsecondary students. Available in English (OSAP) or French (RAFEO).

Sir John A. Macdonald Graduate Fellowship in Canadian History
A brochure explaining eligibility and application procedures for this award, established to pay tribute to Canada's first prime minister by stimulating study in Canadian history. Bilingual.

Summer Language Bursary Program
An application form and brochure explaining eligibility and application procedures for the program. Funded by the Secretary of State of Canada. Bilingual.

William G. Davis Student Award
An application form and information sheet for Crown employees' children entering their first year of postsecondary study. Bilingual.

The bilingual booklets listed below are available, without charge, from
Canada Student Loans Program
Student Assistance Directorate
P.O. Box 2090, Station "D"
Ottawa, Ontario K1P 6C6
Telephone (819) 994-1844
Canada Student Loans Program for Full-Time Students;
Canada Student Loans Program Part-Time Loans Program;
Repaying Your Canada Student Loan.